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The

CHEMIST AND DRUGGIST

for RETAILER - WHOLESALER - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 3073
VOL. CXXIX

DECEMBER 31, 1938

Annual Subscription (with
Diary) 20/- Single Copies 9d.

As we turn the pages
to greater achievement
in 1939 . . . we take the
opportunity of thanking
you for your co-operation
in the past and wishing
you a Year of happiness
and success

1939

Lilly
TRADE MARK

ELI LILLY AND COMPANY LIMITED

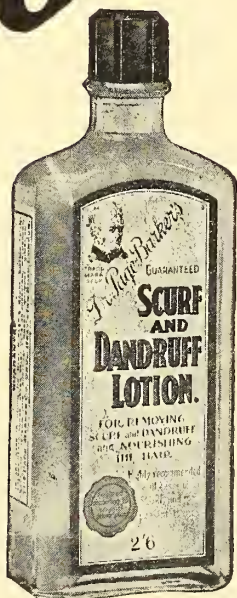
2, 3 and 4, Dean Street, LONDON, W.1.

DISTRIBUTING AGENT IN BRITAIN FOR ELI LILLY AND CO., INDIANAPOLIS, U.S.A.

Page-Barker's
New Year!
Gift to YOU!

30/-
 Worth of Goods
FREE

A BUMPER OFFER
SHOWING 136% PROFIT
ON A £2-14-0 ORDER!



Write for
 full particulars

EVERY year the Chemist eagerly looks forward to that most generous gift—the Page-Barker Special Offer—the opportunity of large extra profit on a quick-selling line. The reception given to last year's offer was so gratifying that we have decided to repeat it for 1939 without any alteration.

Briefly the offer is: With every order for three dozen Page-Barker Scurf Lotion WE WILL GIVE YOU ONE DOZEN FREE selling at 30/-. In addition you get the usual bonus of three 2/6 bottles.

The Easiest Selling Specific you can stock. Nothing you can stock sells so readily as Page-Barker. Why? Because it is not only for the commonest of all scalp troubles, but it is backed by the strongest selling

argument in the world—a *cast-iron guarantee of satisfaction or money back without question.* Here is your chance—a wonderful chance to start increasing your Page-Barker profits at once.

**WHAT THIS OFFER
 MEANS TO YOU**

YOU PAY FOR 36 BOTTLES

£2 - 14 - 0

YOU SELL 51 BOTTLES FOR

£6 - 7 - 6

YOUR PROFIT

£3 - 13 - 6

This offer applies only to Great Britain and Northern Ireland and definitely terminates February 28, so send your order TO-DAY!

Order To-day from

THOS. CHRISTY & CO. LTD.
4-12 Old Swan Lane, London, E.C.

Dr **Page-Barker's**

**SCURF & DANDRUFF
 LOTION**

2/6

OSTOMALT
THE FOUR VITAMINS
FOR FAMILY
FITNESS

1/9 JARS **3x TWICE AS MUCH**

VITAMIN A FOR RESISTANCE
Ostomalt contains a high concentrate of Vitamin A

VITAMIN B FOR APPETITE
The Malt of Ostomalt is rich in Vitamin B

VITAMIN C FRUIT VITAMIN
Ostomalt contains concentrated orange juice for Vitamin C

VITAMIN D FOR STURDINESS
pure D

DELICIOUS ORANGE FLAVOUR

TRIPLE STRENGTH

ECONOMICAL and a CHILDREN'S FAVOURITE!

Ostomalt, the up-to-date vitamin-malt tonic, is three times as potent in vitamins A and D as standard malt-and-oil. Being so highly concentrated, Ostomalt is particularly economical. "Teaspoonfuls replace tablespoonfuls." Pleasant orange flavour and freedom from fishy oils, make Ostomalt a children's favourite. For all ages it builds strength, protects against infection, and restores appetite.

The CHEMIST'S OWN VITAMIN MALT AT BONUS TERMS

There is little of prestige or profit for chemists in the cut-price malt-and-oil lines that the grocers and street-markets are selling. Go out for a better quality trade this winter. Get behind Ostomalt—the "chemists only," oil-free, four vitamin product. Bonus Parcels now available show you 43% on sales. Order early for the seasonal demand.

OSTOMALT BONUS PARCELS

43%

ON
SALES

BONUS PARCEL No. 1

2½ doz. x ½ lb. @ 21/- less 25%	£ s. d. 1 15 5
¾ doz. x ½ lb. FREE	—
The above sells for	3 3 0
YOUR PROFIT	1 7 7

BONUS PARCEL No. 2

1½ doz. x 1 lb. @ 36/- less 25%	2 0 6
½ doz. x 1 lb. FREE	—
The above sells for	3 12 0
YOUR PROFIT	1 11 6

BONUS PARCEL No. 4

¾ doz. x ½ lb. @ 21/- less 25%	0 11 10
½ doz. ½ lb. jars FREE	—
¾ doz. x 1 lb. @ 36/- less 25%	1 0 3
½ doz. 1 lb. jars FREE	—

The above sells for	2 17 0
YOUR PROFIT	1 4 11

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Clinicals

**The Choice
of Experts**

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NO HIGHER
IN PRICE THAN
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Also Household, Bath
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the best of their kind

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43%	75%



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SCIENTIFIC FACTS!

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CLINICAL THERMOMETERS

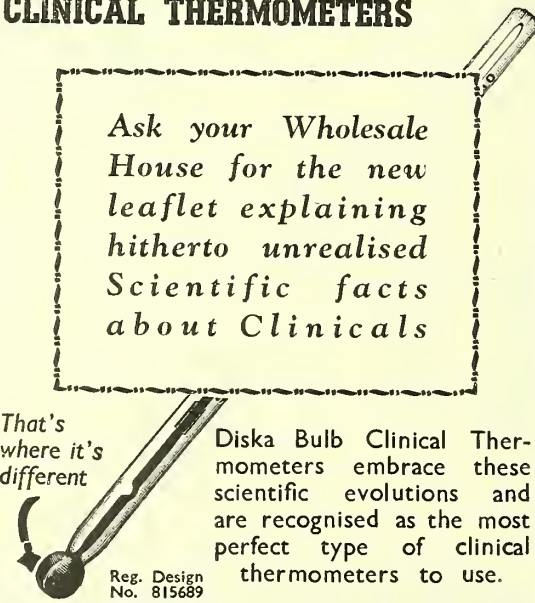
Ask your Wholesale
House for the new
leaflet explaining
hitherto unrealised
Scientific facts
about Clinicals

That's
where it's
different

Diska Bulb Clinical Ther-
mometers embrace these
scientific evolutions and
are recognised as the most
perfect type of clinical
thermometers to use.

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OBTAINABLE AT FIXED PRICES FROM
ALL WHOLESALE HOUSES



SOUTHALLS SAN TOWELS

WRAPPED in plain brown
paper parcel—with carrying
string and . . .
PACKED IN CARTONS
for you to display.

" K " and 12 for 1/-
6 for 6d. 1/3 · 1/7 · 2/1
· 2/4 · 2/9

also makers of 'ORIGINAL' & 'CELTEX'



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1066 WARDONIA 1066

BARREL-HOLE BLADE

THE PERFECT BLADE FOR ALL THREE PEG RAZORS

THOMAS WARD & SONS LTD.
Wardonia Works, Sheffield 1, Eng.

4 FOR 1/-



**BEGIN THE
NEW YEAR WELL**

by taking advantage of

Gibson's WINTER PASTILLE BONUS OFFER

i.e. with every 6 doz.
2 oz. tins at 5/6 an extra
**ONE DOZEN TINS
FREE.**

With every 24 lbs. of
Assorted Pastilles an
extra 4 lbs. **FREE.**

ROBERT GIBSON & SONS LTD.
MANCHESTER & LONDON

MASON'S GINGER WINE ESSENCE

**CASH BONUS for WINDOW
DISPLAY with NEW SEASON'S
OPENING ORDER**

12 dozen 9d. bottles	...	...	10/-
6 " " "	...	...	7/6

It links up with the
CASH PRIZE COMPETITION
Advertised in National Dailies, Sunday
Press and Weekly Magazines.

Please apply for particulars from
NEWBALL & MASON, LTD.
NOTTINGHAM

Don't forget
ASMOLIN
for profitable Winter Sales

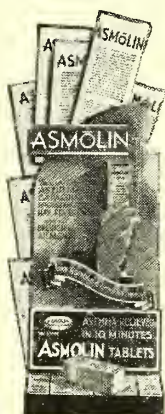
- 42% profit on sales
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- C.F. all over

PERMANENT BONUS TERMS

1 x 3/6 with half-doz. 2/- size, or
2 x 2/- with 7 x 2/- and 1 x 3/6
with 4 x 3/6

Prices	2/-	3/6
	18/-	31/6

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3 COLOUR WINDOW
TRANSPARENCY

D. MAWDSLEY & Co.
2 RIGA ST., MANCHESTER, 4



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(NEW AND REVISED EDITION. 480 pages.)

This book describes diseases of horses, cattle, sheep, goats, pigs, dogs, cats and poultry and suitable remedies therefor.

Special chapters are allotted to infection, immunity, vaccine therapy and posological tables. Legal information is included in regard to veterinary practice—the use of Methylated Spirit in veterinary preparations, The Contagious Diseases (Animals) Act, Protection of Animals Act, 1911, Animals Anæsthetics Act, 1919, and a useful list of Ministry of Agriculture publications. Many tried and tested veterinary formulæ are included. This book supplies up-to-date information on veterinary matters in accurate and concise form. It quickly repays its moderate cost.

Price 10/- 10/6 post free

Send your order at once to

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28 ESSEX STREET, STRAND, LONDON, W.C.2

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BUTO
ODOURLESS HAIR REMOVER

BUTYLAR
FOR FINE SKIN TEXTURE



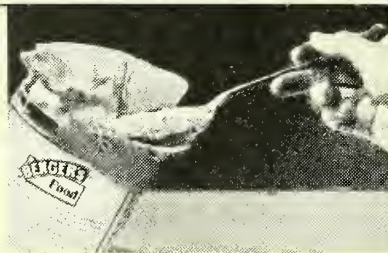
From January 2nd, 1939, kindly send all orders direct to the proprietors, Biometica Ltd., 5 Rampayne Street, Vauxhall Bridge Road, London, S.W.1, Telephone: Victoria 5555 (2 lines), who are combining the manufacturing and distribution under their new trading policy. We wish to thank our friends, Messrs. Fassett & Johnson Ltd., for their support in distribution in the past.

Look out for our representative. Kindly give him ten minutes when he calls. We think you will be well repaid. Full particulars of our National advertising campaigns will reach you shortly.

BIOMETICA LTD.

5 RAMPAYNE STREET, LONDON, S.W.1

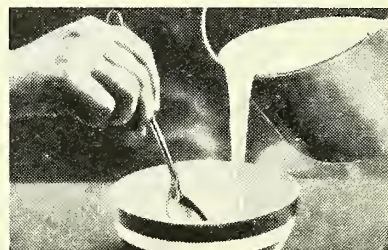
How long does it take to make BENGER'S ?



While half a pint of milk is coming to the boil take one level tablespoonful of Benger's Food.



Stir into a smooth cream with four table-spoonful of cold water.



Take the boiling milk and immediately it starts to settle in the pan pour slowly on the cold mixture. This takes about 30 seconds. Drink as soon as cool enough. (For infants and invalids see special directions on tin.)

In other words Benger's Food only takes as long to make as half a pint of milk takes to boil. Benger's is the only food in the world that partially digests itself *before* you take it, thus giving the full nourishment of the Food with the minimum of digestive strain.



Regd Trade Mark

BENGER'S FOOD, LTD.,
HOLMES CHAPEL, CHESHIRE.

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FROM THE 1st JANUARY, 1939

'TESTOVIRON'

(Testosterone Propionate)

REDUCED PRICES — NEW PACKINGS

4 amp. of 5 mg. 10/-	20 amp. of 5 mg. 44/6
4 amp. of 10 mg. 18/-	20 amp. of 10 mg. 80/-
2 amp. of 25 mg. 19/-	10 amp. of 25 mg. 88/-

Less the usual discount



SCHERING LIMITED

TEL: HOLBORN 9345

185/192 HIGH HOLBORN - - LONDON, W.C.1

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MOVING CITYWARDS

Owing to the rapid growth of their business, CRODA LIMITED have pleasure in announcing that from 1st JANUARY, 1939, their London Office Address will be . . .

CRODA LIMITED

403-404 CECIL CHAMBERS, STRAND, W.C.2

Telephone: TEMPLE BAR 1833 Telegrams: 'CRODA, PHONE, LONDON'

So that intending purchasers may have the benefit of Technical Advice on CRODA Products if required, their Mr. E. Cannon, Technical Director, will be in charge. Croda Limited hope that their many overseas friends will visit them at this new address when in Town Needless to say they will always be most welcome.

CRODA'S PRODUCTS ARE

LANOLINE, B.P. & Commercial
LANOLINE ALCOHOLS
CHOLESTEROLE
CREMBA LANOLINE, ABSORPTION BASE
HARTOLAN WOOL WAX
WOOL FATS
YORKSHIRE WOOL GREASE

OLIVE OIL Edible, B.P. & Commercial and Soapmaking
STEARIC ACID
OLEIC ACID
GLYCERINE, B.P. and Commercial
FATTY ACIDS
FISH OILS
EDIBLE OILS



*A New Year
message that
means greater
prosperity
for YOU!*

RESERVED

for **CHEMISTS AND
HAIRDRESSERS ONLY**

See Over →

BRYLCREEM

THE LARGEST SELLING HAIRDRESSING

Our policy of confining BRYLCREEM to the legitimate trade has met with a loyal and determined response from Chemists and Hairdressers all over the country.

On our side we have been strenuously active. More than half our wholesale accounts were closed a year ago; the remainder are co-operating with us loyally; hundreds of retail grocers, confectioners, newsagents, market-stall holders, cut-price shops and suchlike are no longer able to get Brylcreem, and their sales have ceased.

In spite of these drastic steps (we have turned away orders of a total value of well over £100,000 this year) sales of Brylcreem have soared still higher than ever in the past year.

A huge volume of additional sales have, therefore, been guided into the shops of retail Chemists and Hairdressers, and scores of customers in your district who have previously shopped elsewhere must now come to Chemists and Hairdressers for their Brylcreem — bringing with them considerable additional trade for other toilet and medicinal goods.

We ask you to give active support to Brylcreem for one reason only—because it is good business for you to do so. Brylcreem shows you 45% on every sale you ring up. Our vigorous national advertising has created a huge and ever-growing demand among the men in your district.

Encourage that demand by display and by active recommendation. Then Brylcreem will pay your rent—a big help towards a prosperous New Year!

PROFIT ON SALES 45%

PREEM

DRESSING IN BRITAIN

*presents
over £100,000
new business to you
and more to come*

- ★ NO GROCERS, etc.
- ★ NO SIXPENNY STORES, etc.
- ★ CEASELESS FIGHT AGAINST
CUT-PRICE SHOPS and
MARKET TRADERS.

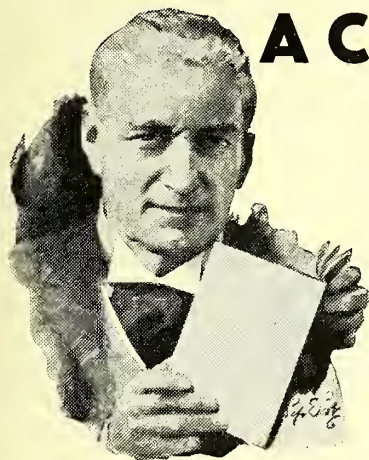
PROFIT ON OUTLAY 84%

*These vital, regular
national advertisements
are moving your stock
many times a year!*

Only Chemists and Hairdressers benefit from the immense volume of trade created by Brylcreem's unceasing, dominant advertising. That is why Brylcreem never stays long on your shelves. Capital invested in Brylcreem stock turns over many times a year—showing you 84% on your outlay every time! Support the publicity that supports your trade. Display Brylcreem constantly in your window and on your counter. Above all, recommend Brylcreem whenever you can.



Support us as we support you



A CHEMIST WRITES TO PRAISE SAMONA

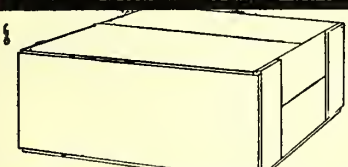
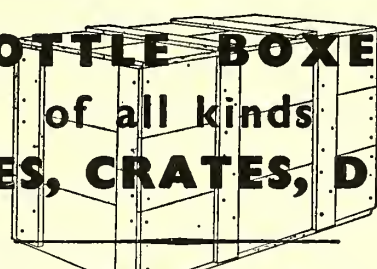
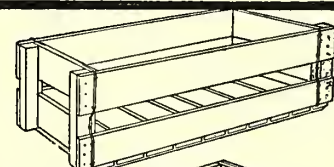
"About two months ago my wife and I had a terribly worrying time, which resulted in both of us being on the verge of a complete nervous breakdown. As a qualified pharmacist I was in a position to try practically anything considered suitable for such conditions. We both tried Samona, and after about three weeks' treatment we were completely recovered and are now both really fit and well again." (———, M.P.S., Som.)

CONSISTENT ADVERTISING ENSURES A STEADY DEMAND FOR THIS RELIABLE PRODUCT which brings immediate relief in all cases of Neurasthenia, Insomnia, Nerve Strain, Depression, Inability to Concentrate, General Weakness, Change of Tissues, Hardening of the Arteries, Tired and Listless Appearance, Mental and Physical Exhaustion.



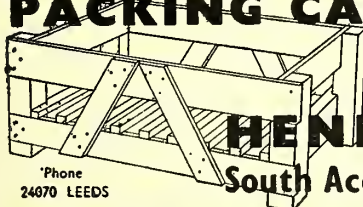
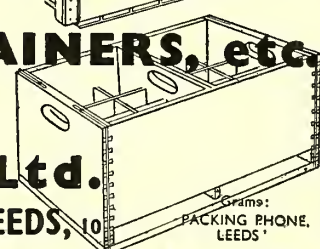
Samona is supplied in two forms: No. 1 for Men (orange tablets); No. 2 for Women (brown tablets). Retail price 3/- and 5/- (more than double quantity).

P.A.T.A. TERMS.—From all Wholesale Houses. For Showcards, etc., apply **SAMONA LTD.**, 16 CHARTERHOUSE ST., LONDON, E.C.1

BOTTLE BOXES
of all kinds

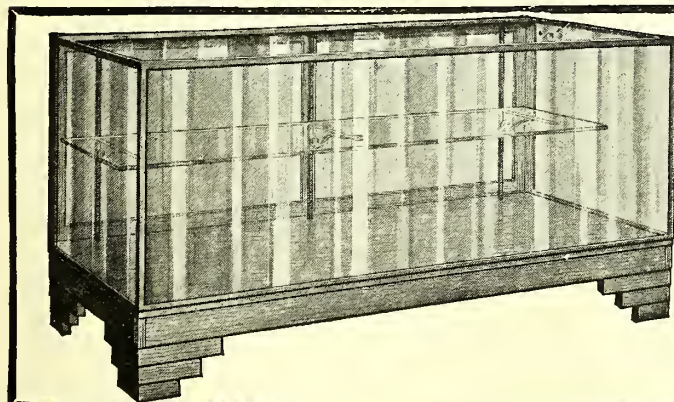
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Mahogany finish . . . £9.0.0

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A natural neuro-muscular tonic containing the active principles of Oats (*Avena Sativa*) indicated in all Asthenias, Debilitated States, Hypotension, etc.

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An Ointment of unique composition by means of which the action of nascent Iodine combined with the radio-activity of Uranium can be effectively utilised in the treatment of Dermatoses.

Supplied in tubes of 1 oz. Retail 2/6, Wholesale 22/6 per doz.

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THE ANGLO-FRENCH DRUG CO. LTD., 11-12 GUILFORD STREET, LONDON, W.C.1

ROUSE'S PACKED POWDERS Save Time, Trouble & Temper

Over 80%
PROFIT ON
TURNOVER



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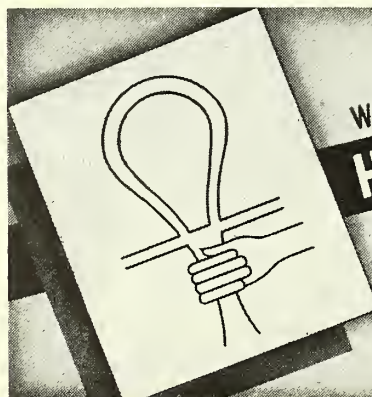
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Cooling and Aperient, Pink, Grey, Worm ...	2/9
Flu, Headache, Neuralgia, Head & Nerve ...	3/6

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Ask us for a price for YOUR OWN PROPRIETARY POWDERS by the gross or by the 1,000's!

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WHOLESALE & EXPORT ONLY

HYPODERMIC NEEDLES
OF ALL DESCRIPTIONS

S.&R.J.
EVERETT
& CO., LTD.

Original makers of
STAINLESS STEEL NEEDLES
OUR SPECIALITIES INCLUDE THE ORIGINAL RECORD FITTING AND N.H.J SPECIFICATION HYPODERMIC NEEDLES. Also the Famous 'SUMMIT' hypodermic needles now ALL BRITISH MADE. Comprehensive catalogue sent on request. Telephone :Thornton Heath 3252-3.

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THORNTON HEATH, LONDON, S.W.16

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The
CHEMIST AND DRUGGIST
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(2ND EDITION)

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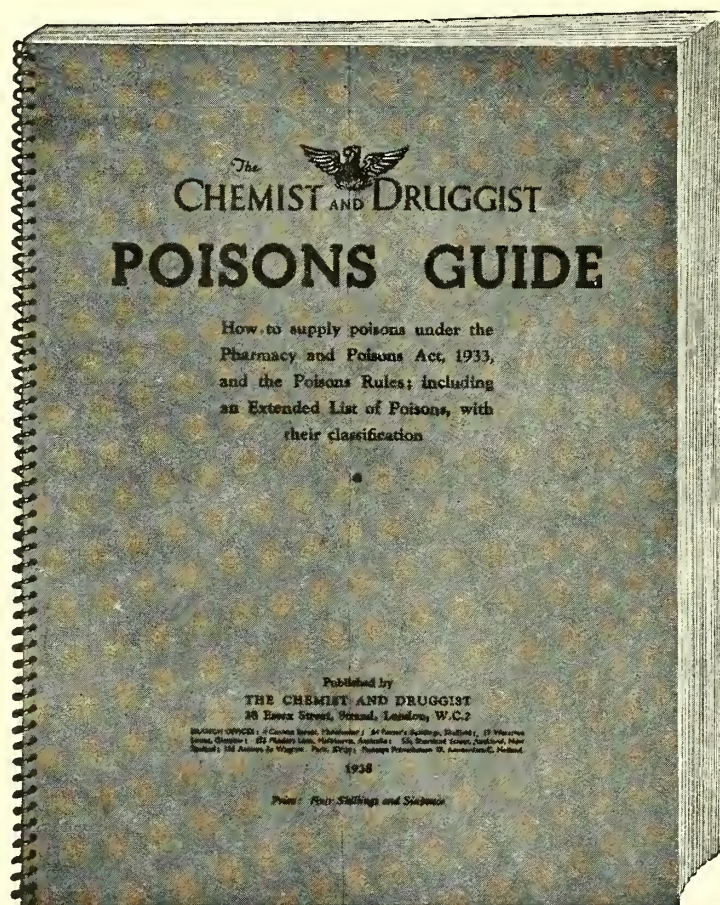
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AS THE FIRST EDITION
PUBLISHED TWO YEARS
AGO**

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THIS COUPON →**



THE CHEMIST AND DRUGGIST, 28 Essex Street, Strand,
LONDON, W.C.2

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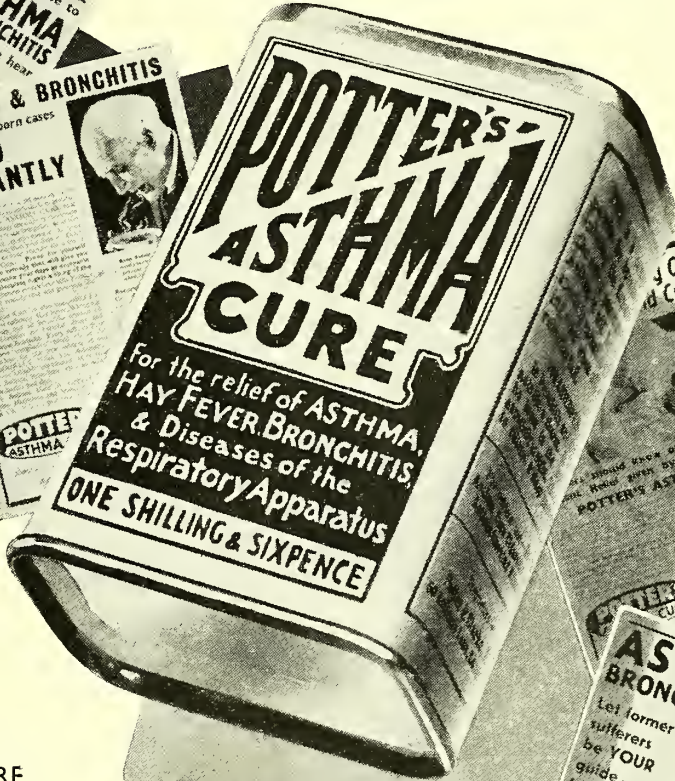
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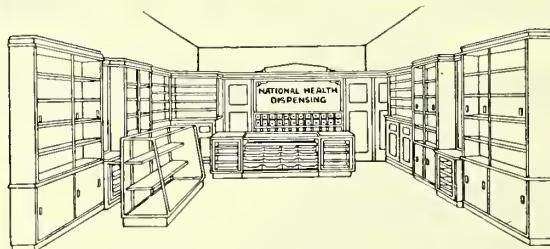
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News of the Week

Business Changes

MR. FRANK HITCHCOCK, M.P.S., has taken over the business of Mr. W. S. Merry, Ilkeston.

MR. WILLIAM LITTLE, M.P.S., has opened a business at Manor Drive North, New Malden.

Nutrition Panel

The Food Group of the Society of Chemical Industry has formed a Nutrition Panel with Professor J. C. Drummond, Professor of Bio-chemistry at London University, as chairman. Mr. A. L. Bacharach is secretary and Dr. G. W. Monier-Williams, Dr. Albert Green and Dr. Magnus Pyke are on the committee. The Panel has been formed for the study of food in relation to health and disease. Membership is open to all members of the Society.

Hydrogen Cyanide (Fumigation) Act, 1937

(From "The London Gazette," December 23, 1938)

The Secretary of State for the Home Department hereby gives notice that on December 19, 1938, he made Regulations under Section 1 of the Hydrogen Cyanide (Fumigation) Act, 1937, for the fumigation of buildings with hydrogen cyanide.

The Regulations, which are substantially in accordance with the draft issued on January 14, 1938, will come into force on February 1, 1939.

Copies of the Regulations, which may be cited as The Hydrogen Cyanide (Fumigation of Buildings) Regulations, 1938, can be purchased directly from His Majesty's Stationery Office at the following addresses:—York House, Kingsway, W.C.2, 120 George Street, Edinburgh, 2; 26 York Street, Manchester, 1; 1 St. Andrew's Crescent, Cardiff; or through any bookseller.

Whitehall,

December 23, 1938.

Pharmacy and Poisons Act, 1933

(From "The London Gazette," December 23, 1938)

Notice is hereby given that on December 15, 1938, the Secretary of State for the Home Department, after consultation with the Poisons Board, made under Section 17 (5) of the Pharmacy and Poisons Act, 1933, an Order, entitled The Poisons List (Amendment) Order, 1938, amending the Poisons List, being the list of the substances which are to be treated as poisons for the purposes of the Act, and further made under Section 23 of the Pharmacy and Poisons Act, 1933, Rules entitled the Poisons (Amendment) Rules, 1938, amending the Poisons Rules, 1935.

Copies of the Poisons List (Amendment) Order, 1938 (S.R. & O., 1938, No. 1547) and of the Poisons (Amendment) Rules, 1938 (S.R. & O., 1938, No. 1548), may be purchased, price

1d. net and 2d. net respectively, directly from H.M. Stationery Office, at the following addresses: York House, Kingsway, London, W.C.2; 120 George Street, Edinburgh, 2; 26 York Street, Manchester, 1; 1 St. Andrew's Crescent, Cardiff; 80 Chichester Street, Belfast; or through any bookseller.

Home Office, Whitehall,

December 23, 1938.

[The text of the draft List and Rules was printed in the C. & D., September 10, p. 251. An alteration has been made in the wording of paragraph 4, which now reads: "In Rule 22 (1) of the said Rules there shall be inserted after the word 'ailments' in paragraph (b) the words 'or a local anaesthetic for injection in the treatment of human or animal ailments.'" A statement showing the effect of the changes was given in the C. & D., December 24, p. 691.]

Birmingham

MILITARY WHIST DRIVE.—The Birmingham Pharmaceutical Association held a military whist drive at the Three Counties Club, New Street, on December 14, in aid of the Birmingham Conference Fund. There was a good attendance, and novel prizes, all given by members and friends, included a canary and cage. The prizewinners were Mr. and Mrs. Michie; Mr. and Mrs. Stanford; Mr. and Mrs. E. Cox; and Mr. and Mrs. Harvey. Mr. R. T. Spargo acted as M.C. and Mr. E. W. Mann (chairman of the Local Committee) expressed thanks to the donors of the prizes and to the ladies' committee and its joint secretaries (Mrs. D. J. Rushton and Miss I. Smith) for the admirable arrangements made. The proceeds amounted to over £5.

Carlisle

PRESIDENT DESCRIBES NEW HEADQUARTERS.—A meeting of the East Cumberland Branch of the Pharmaceutical Society was held at Carlisle on December 8. At 8 p.m. twenty-six members partook of an excellent supper, by invitation, at which the president of the Society was welcomed by the chairman (Mr. J. Sharp), who remarked that on the last occasion on which Carlisle was honoured by the visit of a president he had been a fellow-countryman of Mr. Guthrie—the late Mr. Currie. Mr. Sharp suggested, as an alternative subject for the lecture (on "The New Headquarters"), "How to catch an apprentice, and, when caught, how to keep him." He was of the opinion that the present high standard of education was having the effect of keeping out many suitable entrants to pharmacy and creating instead an army of unqualified assistants. Mr. Guthrie thanked the chairman for his welcome, and gave as his opinion that the number of apprentices being registered was gradually increasing. Whenever the entrance standards were raised, the

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number of apprentices fell for the first year; but each successive year brought an increase in their number. Did chemists in that area really want apprentices? He quoted instances where difficulty had been found in securing vacancies for aspiring apprentices. He thought that the number at present entering pharmacy was sufficient to balance the outgoings. Mr. Guthrie then read an article by Mr. F. W. Adams on the varied activities carried on at 17 Bloomsbury Square and the extremely cramped and unsuitable quarters there. Lantern slides illustrated these remarks and gave members a good idea of what might be expected when the new headquarters was completed. Mr. Guthrie pointed out that the cost was not excessive when the necessity was borne in mind, and was the minimum at which such a building could be bought in London. The upkeep of the building would be an item of considerable magnitude, but an opportunity would be afforded to members (individually and in groups) to contribute. Welshmen had agreed to be responsible for a room as a memorial to the late Sir William Glyn-Jones. The chairman thanked Mr. Guthrie for his address, and promised that the Branch would take their share in contributions. Mr. T. M. Ridley proposed a vote of thanks and stated that he personally was aware of the difficulty that was being experienced at the old headquarters. A vote of thanks was also accorded Mr. J. D. Hunter, who had operated the lantern.

Huddersfield

TEN-MINUTE TALKS.—At the monthly meeting of the Huddersfield Branch, recently, ten-minute talks were given by Mr. E. Thomas ("Then and Now") and Mr. F. North ("Apprenticeship Problems"). Forty years ago, at the commencement of his career, said Mr. Thomas, chemists did a big trade with licensed houses in hops, block juice, liquorice powder, and quillaia; apprentices' wages were much less and premiums were paid to the masters; and shop closing was at 9, 10, and 11 p.m. Conditions for both wages and hours improved considerably with the advent of the weekly half-holiday. The photographic trade as understood to-day was almost negligible; in the Northern counties there was little or no dispensing, and the chemist compounded his own proprietaries. The average wage was £36 per annum for an unqualified and £72 for a qualified assistant; the live-in system was not to the good of the assistant because under-feeding was rife. When the National Health Insurance Act came it was felt by many chemists that the sale of their nostrums would decline, but the reverse proved true. The War period was notable for scarcity of drugs, "munition" wages and correspondingly larger spending power, and the change to paper money. Also about this time company pharmacy began to assume much greater proportions and the private chemist was ousted from the centre of the town in many instances. Mr. North briefly enumerated the regulations with which a master must comply when taking an apprentice. It had been recommended by the Huddersfield Branch that a period of four years should be taken for apprenticeship, during which time the pupil was allowed to take a full-time course at a recognised school for Part I and received his full salary, the precise year during which he attended college being left to the discretion of the apprentice-master. Working out the figures for the four-year apprenticeship, including nine months at college, the speaker said that the pupil worked approximately 7,500 hours; this, at the scale of wages recommended, worked out at 4½d. per hour—a nominal figure and possibly a reason why they should employ apprentices. From the apprentice's point of view he thought that the conditions mentioned offered an attractive opportunity for entrance to a profession or trade. This was reflected in the figures of registered apprentices, which, despite higher educational demands, he said, still keep an upward trend. It seemed only fair that the apprentice should be taught the commercial side of the business also, e.g., window and counter display, buying and general accountancy.

London

REORGANISATION OF PHARMACY DEPARTMENT.—Reference was made, at the annual prize distribution of the Chelsea Polytechnic, London, S.W., on December 9, to recently completed extensions to the pharmacy department. It was stated that this department was second in the College in order of size during the session 1937-38. The department now consists of a dispensary; laboratories for pharmaceutical chemistry (general and advanced) and pharmacognosy; and galenical and sterilisation rooms. There is a separate research laboratory.

Prizes and certificates were awarded as follows: A. R. Melhuish prizes (Preliminary Scientific course).—Chemistry, physics, J. R. Phillips; Boots prizes (Chemist and Druggist course).—Theoretical pharmacy, Violet E. Bennett; practical pharmacy, R. P. Wixley; forensic pharmacy, Kathleen M. Brookes; theoretical pharmaceutical chemistry, A. J. Bearman; practical pharmaceutical chemistry, R. C. Swanton; (final B.Pharm. and Ph.C. courses, first year), E. S. Mayers; Allen and Hanburys prize (Chemist and Druggist course).—Pharmacognosy, F. S. Kingsley; The British Drug Houses prize (final B.Pharm. and Ph.C. course), L. Hume; Biology prize (Preliminary Scientific course), W. G. Robertson; Physiology prize (Chemist and Druggist course), Violet E. Bennett.

A.R.P. CERTIFICATES.—A meeting of the North-East Metropolitan Branch of the Pharmaceutical Society was held on December 13, when Mr. Walter Deacon (vice-president of the Society) gave an illustrated lantern lecture on "The Romance of Perfumes." During the evening presentation of certificates of proficiency in the anti-gas training, following an examination held in connexion with recent A.R.P. classes, was made to successful candidates by Mr. Deacon, deputising for Dr. Dart, (medical officer of health for the Borough of Hackney) at the request of Mrs. Dart, who was present, Dr. Dart being unavoidably absent. After the certificates had been presented the chairman (Mr. Broadhead) asked Mr. G. Geyman to propose and Mr. J. Labraham to second a vote of thanks to Mr. Deacon. Staff Inspector Stanley T. Greensmith (the examiner appointed by the British Red Cross Society) said he wished to associate himself with the proposer and seconder of the vote, and to say how pleased he was to receive their invitation to be present that night. He thought a special word of praise and thanks was due to those who had taken the trouble to train in their own time and at their own expense, particularly as, owing to the nature of their vocation, they were prevented from offering unrestricted services to the local authorities. He was also gratified to find that the chemists had invited members of the nursing and administrative staffs of their local voluntary hospital to join with them in this course of instruction. Mr. Deacon, replying, said he was pleased to have had the privilege of presenting the certificates, particularly as it clearly indicated to his mind that the pharmacists in that area were prepared to take their part in national defence. Speaking as one with a knowledge of public affairs, he declared they had set an example to other people not similarly restricted, and who had time and opportunity to give their service to the local authority. The matron of the Metropolitan Hospital (Miss Farquar) was asked to convey the thanks of the Association to the governors for the use of the hospital for the lectures.

Mansfield

ENFORCEMENT OF CODE SUGGESTED.—Mr. H. W. Wallis (a member of the Pharmaceutical Society's Council) addressed a meeting of the Mansfield Branch recently. He declared that not all the criticism directed at the Council was justified; much of it applied first to the members themselves, especially in so far as their apathy at elections was such that a candidate for Council could fairly count upon success if he could poll 4,000 votes out of a total electorate of 24,000. In N.H.I. matters the "big grumble" had gone with the passing of the discounting clause. It was still true, however, that the chemist was underpaid for this service, and they could only remedy this by improving the service they were giving. This object could be attained by improved relations with each other, getting back to something like the ethics of the old craftsmen. The efforts of the Tees-side Branch towards this end deserved every encouragement and Mr. Wallis believed that out of their code of ethics would come a real code for pharmacy, one which should say, with the ten commandments—"Thou Shalt Not ——" rather than "It is desirable that —." When this was agreed upon and passed, the Statutory Committee, with the powers already possessed, could see to its enforcement. The speaker then referred to the aims of the committee of inquiry. He said that what was wanted was a wider C.F. scheme based on the findings and backed, if possible, by Parliament. This was not impossible if every pharmacist were behind the committee. The questionnaire recently sent out, calling for details of the businesses of members, was indicative of this. On A.R.P. matters the speaker was emphatic that the Council had done and were doing all they could. They were not, however, receiving a great deal of encouragement from the Home Office, and he advised members who wished to join classes of instruction so as to extend their knowledge of the subject, but

on no account to entangle themselves with duties to be carried out in the event of war, since the Government would almost certainly require them for extended pharmaceutical services. He concluded with an appeal for the Benevolent and Orphan Funds. After questions, the speaker was warmly thanked on the proposition of Mr. G. K. Mitchell, seconded by Mr. J. W. Sanderson.

Oldham

DINNER AND LADIES' EVENING.—At the annual dinner and ladies' evening of the Oldham Chemists' Association, recently, the guests were received by the president (Mr. R. Gorbutt) and Mrs. Gorbutt. Whist followed, Mr. H. Gobbold acting as M.C. The first ladies' prize was won by Mrs. F. Newby, the second by Mrs. Mackinnon; three ladies tied for the third: Mrs. Bloodworth, Miss Cherry and Mrs. Cronin each received a special prize. Mrs. Cartwright received the consolation prize. The men's prizes were won by Messrs. H. H. Taylor, J. W. Scholes and R. Lateward. The guest of honour was Mr. J. R. Ashworth (president, Chamber of Trade). Also present were Mr. and Mrs. F. Newby, Mr. and Mrs. Thompson, Mr. and Mrs. Anderton, Mr. and Mrs. N. Jones, Mr. and Mrs. W. Yates, Mr. and Mrs. S. Radcliffe, Mr. and Mrs. W. Gartside, Mr. R. H. B. Whitehead (secretary) and Mrs. Whitehead. During dinner the president toasted his former apprentice master (Mr. S. Radcliffe) and a former apprentice, now a chemist (Mr. Fleming). Dancing occupied the rest of the evening, Mr. J. W. Thompson being M.C.

Miscellaneous

FIRE.—An outbreak of fire occurred on December 14 at the premises of J. F. Smith (Pharmacy), Ltd., Highfield Lane, Keighley. The damage was not of an extensive nature.—Damage to Christmas stock was caused by a fire which occurred at the pharmacy of Mr. Gibson-Dixon, M.P.S., 8 Old Market, Halifax, recently.

SERIES OF FILMS.—A series of films ("Bacteria and the Skin," "The Living Cell," "Colles's Fracture," etc.) were shown to members of the Nottingham Branch of the Pharmaceutical Society on December 7, by permission of Petrolagar Laboratories, Ltd. The programme also included films of major operations, lent by Kodak, Ltd. A vote of thanks to the demonstrator was moved by the vice-chairman (Mrs. Wright).

A RESEARCH WORKER'S EXPERIENCES.—At a meeting of the Blackpool Branch of the Pharmaceutical Society on December 3, Mr. J. Pritchard (Evans' Biological Institute) described his "Experiences in Biological Assay." He explained the difficulties in assaying the potency of several drugs, including digitalis, mercurochrome and ergot, and answered several questions by members on difficulties appertaining to sera, etc. Mr. Stuttard (chairman) proposed a vote of thanks, which was seconded by Mr. Low.

CHIROPODY QUALIFYING BODY.—Following on the addition of names of members of the British Association of Chiropractors and Incorporated Society of Chiropractors to the Register of Medical Auxiliaries (C. & D., November 26, p. 569), a Chiroprody Group Council has been formed as the qualifying body, under the chairmanship of Mr. E. L. G. McManus (registrar, Board of Medical Auxiliaries). In a memorandum circulated to chiropractors the Chiroprody Group Council states that the practice of chiroprody will in future be entirely directed and controlled by the new council. All chiroprody organisations are eligible for acceptance if their standard of training, ethics, and status complies with the requirements of the Board.

P.D.A. BRANCH DINNER.—The annual dinner of the Manchester and Salford Branch of the Photographic Dealers' Association was held recently. The chairman (Mr. G. V. Tyler), proposed "Our Guests." Mr. H. Mottershaw (president, P.D.A.), in reply, spoke of the valuable services rendered by the Manchester branch, and complimented members on the interest displayed for the welfare of the trade in general. Mr. J. Hoare (immediate past-president, P.D.A.) proposed "The Manchester, Salford and District Branch of the P.D.A.," speaking of the good fortune enjoyed by the branch in being served by such a hard-working secretary as Miss Foxall. Mr. Hoare also mentioned the services rendered by Mr. J. Lomax. Miss Foxall replied on behalf of the branch. Mrs. H. Mottershaw and Mr. E. J. Andrews (general secretary, P.D.A.) were among the guests. Dancing continued until 1 a.m., Mr. H. Steinman acting as M.C., and spot prizes provided by various manufacturers being awarded.

Irish Notes

Irish Drug Association

Mr. P. A. Brady (president) was in the chair at a committee meeting of the Irish Drug Association on December 12, when Mr. Patrick Teehan, M.P.S.I., 101 High Street, Kilkenny, was unanimously co-opted to fill a vacancy on the committee. Mr. Teehan is secretary of the Kilkenny section, Waterford, Kilkenny, and South Tipperary Drug Association. The date of the annual meeting of the Association was fixed for January 23, 1939, and notices of motion for the meeting are required to be in the hands of the secretary fourteen clear days before that date. The committee issued a reminder to members of their obligation to code all prescriptions, an obligation that applies not only to the original but also to copies. Mr. S. McCauley (managing director, Irish Pharmaceuticals, Ltd.) discussed with the committee the position of manufacturers of toilet preparations on the approved list. It was decided to refer this matter to a subcommittee, which will report to the general committee. At the request of the Prices Commission a deputation from the Association is to discuss with that body, after Christmas, the position with regard to the Package Tax resulting from the recent Anglo-Eire Agreement. The committee has not, for many reasons, altered the prices of all items effected. In some cases the manufacturers themselves do not wish to do so, and prefer that their goods be sold at round figures. Moreover, members must be allowed sufficient time to liquidate stocks, while in some cases the profit margin is not considered adequate. The Minister for Industry and Commerce has notified that he is unable to accede to the Association's request for exemption from the limits of working hours fixed under the Shops (Conditions of Employment) Act.

Scottish Notes

Glasgow

THE death occurred on December 19, at Lilybank, Garn-gaber Avenue, Lenzie, of Mr. Alexander K. Chalmers, aged seventy-nine. Mr. Chalmers was outside representative of John Jaap & Co., chemists, 268 Buchanan Street, Glasgow.

McKESSON & ROBBINS INQUIRY.—Consequent upon the setting up of the Securities and Exchange Commission by the United States Government to investigate the tangled affairs of McKesson & Robbins, Inc., the following communication was received on December 24 by Cockburn & Co., Ltd., wholesale and retail chemists, Glasgow:—"Gentlemen,—The United States Securities and Exchange Commission is conducting an examination of the affairs of McKesson & Robbins, Inc., to determine whether the provisions of the Securities Exchange Act of 1934, and the rules and regulations promulgated thereunder, may have been violated. To this end I solicit your co-operation. The available books and records of McKesson & Robbins, Inc., indicate that on November 30, 1938, you were indebted to the corporation in the amount of \$15,345. This obligation, it appears, arose out of a sale or sales to you of merchandise, made through a W. W. Smith & Co. There is no record at hand, however, which would enable me to determine any of the details with respect to the transactions. In connexion with this obligation, for which the books indicate you are indebted, will you be good enough to advise me by return mail of the following:—(1) The date and nature of the transaction involved; (2) through whom the transaction was initiated; (3) if you were not indebted in the amount indicated, do you owe moneys to McKesson & Robbins, and, if so, give the amount, date, and nature of the transaction?" The following statement has been made by Messrs Cockburn:—"We will certainly repudiate the alleged debt at once. We have never had any dealings whatever with W. W. Smith & Co. In fact, we have never even heard of the existence of such a firm. . . . but we do not anticipate the slightest difficulty in proving that we did not purchase any merchandise."

Miscellaneous

PRESENTATION.—Mr. John Weir, M.P.S., Clydebank, president of the Scottish Pharmaceutical Federation, has been presented with an electric chiming clock in recognition of his twenty-five years as secretary of Clydebank Pharmaceutical Committee.

INVERNESS CLOSING HOURS.—On and after January 2, 1939, all pharmacies in Inverness will have the following hours:—Monday, Tuesday, Thursday and Friday, 8.30 a.m. to 7 p.m.; Wednesday, 8.30 a.m. to 1 p.m.; Saturday, 8.30 a.m. to 8 p.m.; Sunday and all holidays, 12 noon to 1.30 p.m.

ASSOCIATION OFFICERS.—The following office-bearers were elected at the annual general meeting of the Perthshire Pharmacists' Association:—*President*, Mr. J. M. Farquhar; *Vice-President*, Mr. W. Fulton; *Committee*, Messrs. A. McGregor, D. R. Sharp, and A. R. Stewart; *Secretary and Treasurer*, Mr. W. B. Forbes.

RETIREMENT.—To mark his retirement a presentation was made on December 21 to Mr. David S. Rattray, Ph.C., senior lecturer in pharmacy in the School of Pharmacy at Robert Gordon's Technical College, Aberdeen, for nearly twenty years. Mr. J. E. Bowen, Ph.C., head of the school presided. Dr. W. Maitland, head of the chemistry department, presented Mr. Rattray with a walnut bureau on behalf of the staff and expressed the hope that Mr. and Mrs. Rattray would have long life and happiness. On another occasion a silver tea set from the pharmacy students was handed to Mr. Rattray by Miss C. F. Cumming. Mr. Frank Innes presided at this ceremony.

FORTY-EIGHT YEARS' SERVICE.—At a recent representative gathering of staff and employees of T. & H. Smith, Ltd., Edin-

burgh, Mr. W. F. Martin, M.P.S., F.I.C., was the recipient of an inscribed chiming clock and gold watch on the occasion of his retiral after forty-eight years' active service. The board of directors was represented by Mr. Archibald Watt and Mr. G. F. Anderson, and the latter, in making the presentation, spoke in appreciative terms of the prominent part Mr. Martin had taken in the development of the company. For reasons of health Mr. Martin had now to curtail his activities, but his knowledge and experience were still to be available in a consulting capacity.

SCOTTISH YEAR BOOK.—The twenty-eighth edition of "The Chemists' and Druggists' Year Book and Directory for Scotland," which is edited by Mr. J. B. McVittae, M.P.S., and published by Munro & Co., 28 Royal Exchange Square, Glasgow, has just been issued (price 2s. 6d.). Among the special features of the "Year Book" are the following articles:—"British Pharmaceutical Conference, Edinburgh, 1938," by Mr. C. G. Drummond; "Pharmaceutical Ethics Redivivus," by Mr. J. P. Gilmour; "Some New Remedies of 1938," and "The Edinburgh Pharmacopœia, 1699-1841," both by Mr. W. Mair. The latter article has also been reprinted in the form of a small folder on art paper, a copy of which was presented by the author to those attending a recent evening meeting of the Pharmaceutical Society in Edinburgh on Carl Wilhelm Scheele (C. & D., December 24, p. 693).

Topical Reflections

By Xrayer

Pharmacy's Relations with Medicine

Over a lengthy period of years I have been reading reports of good discussions held at meetings of the Western Pharmacists' Association, to which series p. 656 adds another, in this case a discussion by the corresponding branch of the Pharmaceutical Society. The question whether pharmacy should come under the jurisdiction, immediate or ultimate, of the General Medical Council may not be urgent, but it is one that should be kept in mind so that we may be prepared with a definite policy in any eventuality. I am in agreement with the opinion, expressed by at least two speakers, that it is not desirable for us to submit to any kind of G.M.C. control. As one of these speakers remarked, the tendency is for the medical profession "to keep its ancillary services in a subordinate position"; and I have previously pointed out, I believe, that the dental profession is well aware of this subordination. In Bell and Redwood's "Progress of Pharmacy" there are some informative passages recording consultations between representatives of pharmacy and of medicine during the course of the movement which led to the formation of the Pharmaceutical Society in 1841. On p. 95 of that book, for instance, we read that the College of Physicians of London "thought it evident that some adequate education and an examination should be instituted [for chemists], and proposed to form a board in conjunction with the Apothecaries' Company for that purpose." This proposal was dropped, apparently on the ground that pharmacy's representatives were able to satisfy the College regarding the scope of the new examination; but it may be inferred that the College was, and is, ready at any time to approach Parliament for power to control the destinies of pharmacy if it is so minded. The spirit that prompted the old Acts for "the better Viewing, Searching, and Examining, all Drugs, Medicines, Waters, Oils, Compositions, used or to be used for Medicines in all Places where the same shall be exposed to Sale . . ." is, I fear, not yet extinct.

Scheele

One acid in the poisons cupboard keeps the name of Carl Wilhelm Scheele before every pharmacist; but how many could mention offhand the various chemical substances introduced to the world by him? The lantern address given by Mr. William Mair at Edinburgh (C. & D., December 24, p. 693), and your facing page of illustrations, present an attractive account of one of the most remarkable pharmacists the world has seen. The world, as a matter of fact, did not see much of Scheele, who, we are told, "was content to labour in his humble laboratory in the small town of Köping . . . consumed by his passion for chemistry with no thought of

worldly gain or reward." In this obscure spot he discovered an astonishing number of acids and salts, organic and inorganic: if "the reward of a thing well done is to have done it" he had his reward in full measure. The question of priority between Scheele and Priestley in the separation of oxygen as a distinct entity is not, I think, of much importance. As neither collaboration nor "lifting" of ideas is involved, each of these innovators may remain in undisturbed possession of his fame. The outward lives of the two were entirely different. Priestley was a theologian (and at the time of his discovery of oxygen a librarian and tutor); Scheele's brief life was spent in a provincial pharmacy. In thinking of the first appearance of oxygen we must not forget the pioneer work of John Mayow, who died in 1679. Mr. Mair's estimate of the "advanced position" of Scottish pharmacy in Scheele's period may be to some extent coloured by enthusiasm for his subject; for I seem to remember a very different picture painted by Burns in "Death and Dr. Hornbook." It may be, however, that what a poet says is not evidence.

The Wrapping of the Bottle

We have it on record somewhere that when Robert Louis Stevenson was staying in the South of France in search of health he was so pleased with the wrapping of a bottle in a local pharmacy that he had another bottle similarly wrapped and kept it as an ornament. This footnote to literary history came to mind when I read the discussion on training and examination in your report of the December Council meeting of the Pharmaceutical Society of Northern Ireland (p. 686). Surely it is an unhappy state of affairs when masters fail to train their apprentices, as we are told they fail, to wrap bottles, to make pills or to spread plasters *secundum artem*; for these are among the features in pharmacy that the public can judge up to a point. I remember once opening a box of proprietary pills for some purpose—wild horses will not drag the name from me—and finding that they were, as the phrase goes, all shapes and sizes. It may at times be troublesome to strain a mixture showing traces of fluff, or to reject a batch of pills containing too much excipient; but the pharmacist who values his reputation will not hesitate to do so. Customers take more interest in the appearance, smell and taste of their medicines than some of us realise. Some years ago, on handing in a "repeat" prescription for pills the natural odour of which had been more or less successfully disguised with otto of rose, a patient remarked to me: "You'll make them as rosy as you can, won't you?" Apprentices who are not born with deft fingers may find it hard to acquire habits of neatness in finishing their work; but the effort will repay them.

Company News

P.C. means Private Company and R.O. Registered Office

E. A. OPAS, LTD. (P.C.).—Capital £5,000. Objects: To carry on the business of wholesale and retail chemists' sundriesmen, etc. Edward A. Opas, 18 Langside Crescent, Southgate, N.14, director.

N. W. SPRATT, LTD. Capital £10,000. Objects: To carry on the business of manufacturers of and dealers in chemicals, drugs, medicines, etc. Solicitors: Wm. Easton & Sons, 43 London Wall, E.C.

NEW DYESTUFFS AND CHEMICAL CO., LTD. (P.C.).—Capital £100. Objects: To carry on business as merchants and dealers in and manufacturers of dyes, chemicals, etc. Gershon Levy, 32 Gresham Street, E.C.2, director. R.O.: 32 Gresham Street, E.C.2.

B. SULLIVAN, LTD. Registered in Dublin. Capital £3,000. Objects: To carry on the business of wholesale and retail pharmaceutical chemists, druggists, opticians, etc. Bartholomew C. Sullivan, 63 Main Street, Mallow, co. Cork, director.

G. F. WILLEY, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of chemists, herbalists, drug merchants, dealers in toilet requisites, opticians, etc. George F. Willey, 14 Market Street, Earlstown, Lancs, director. R.O.: 14 Market Street, Earlstown, Lancs.

CAMDEN CHEMICAL CO., LTD. (P.C.).—Capital £5,000. Objects: To carry on the business of manufacturers of and dealers in chemicals, drugs, medicines, etc. The first directors are to be appointed. Solicitors: Herbert Oppenheimer, Nathan & Sandyk, 1/2 Finsbury Square, E.C.2.

VINTONIC PROPRIETARIES (LUTON), LTD. (P.C.).—Capital £100. Objects: To carry on the business of chemists, drug merchants and herbalists, vendors of proprietary and other medicines, etc. Walter S. Clark, 29 Kenilworth Road, Luton, director. R.O.: 58 Dumnfries Street, Luton.

FRANCIS NEWBURY & SONS (WHOLESALE CHEMISTS), LTD. (P.C.).—Capital £100. Objects: To carry on the business of chemists, druggists, druggists' merchants and sundriesmen, etc. The first directors are not named. Solicitors: Underwood Barron & Heys-Jones, 9 Cavendish Square, W.1.

N. ZAMET (CHEMIST), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of pharmacists and retail or wholesale manufacturing chemists and druggists, drug merchants, opticians, perfumers, etc. Nathan Zamet, 50 Peter Avenue, Villesden, N.W.10, director. R.O.: 81 Grays Inn Road, W.C.1.

ASSOCIATED PREPARATIONS, LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers and dealers in all kinds of medical preparations, drugs and surgical and dental materials and appliances, etc. Ellen Mitchel, 12 Broomwater West, Teddington, director. R.O.: 1 London Road, Wickenham.

RHEUMALENE PRODUCTS, LTD. (P.C.).—Capital £2,000. Objects: To acquire the trade mark "Rheumalene" granted to Brenner, and to carry on the business of wholesale and retail dealers in chemicals, drugs, medicines, disinfectants, dressings, etc. The first directors are to be appointed. Solicitors: Laughter & May, 18 Austin Friars, E.C.2.

EVELYN HERBAL PRODUCTS, LTD. (P.C.).—Capital £100. Objects: To carry on the business of herbalists, manufacturers and dealers in perfumery, cosmetics, toilet articles and preparations, chemists and druggists, etc. Chas. Benjamin Purdon, 4 Barleycroft Road, Welwyn Garden City, director. R.O.: 4 Tewin Road, Welwyn Garden City, Herts.

GENERAL PRODUCTS CORPORATION (CHEMICALS), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in soaps, disinfectants, chemical compounds and preparations, chemists, druggists, dealers in patent and proprietary medicines, etc. Charles E. Simpson, 18 Tatton Road South, Heaton Moor, Stockport, director. R.O.: 8 Grosvenor Street, Manchester.

JOHNSON'S (PRESTWICH), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of analytical, manufacturing, pharmaceutical and general chemists, herbalists and drug merchants, etc. John A. Higgins, 2A Bold Street, Southport, director. R.O.: 462 Bury New Road, Prestwich.

Voluntary Liquidations

Copeland Chemists, Ltd., 332, Regent's Park Road, Church End, Finchley, London, N. At the statutory meeting of the creditors it was reported that the shareholders had passed the usual resolution for the voluntary liquidation of the company and had nominated Mr. Parkin S. Booth, of the Association of Manufacturing Chemists, Holborn Viaduct, London, E.C., as liquidator. The statement of affairs showed liabilities of £646 11s. 1d., whilst the only assets were book debts of £86 15s. 11d., expected to produce £80, and subject to preferential claims of £5 3s. 6d. The net assets, therefore, were £74 16s. 6d., or a deficiency, as regarded the creditors, of £571 14s. 7d. The liabilities, it was stated, included a claim by Mrs. Copeland for £70 in respect of cash advanced. The company was registered in July 1934 with a nominal capital of £500 divided into shares of the face value of £1 each. The trading figures disclosed that during the year to July 31, 1936, the turnover was £1,776, with a net loss of £67, whilst in the two following years there were net losses of £96 and £149, the turnover being £1,916 and £1,774 respectively. The creditors decided that the voluntary liquidation of the company should be continued with Mr. Parkin S. Booth as liquidator.

Games Evans, Ltd., 54 Clare Road, Cardiff, chemists. At the statutory meeting of the creditors held recently it was reported that the liabilities were £951 10s. 3d., of which £265 9s. 3d. was due to the trade and £686 1s. to Mr. Games Evans in respect of cash advanced. The assets totalled £83 1s. 3d., or a deficiency, as regarded the creditors, of £868 9s. The issued capital was £300, and so far as the shareholders were concerned there was a deficiency of £1,168 9s. It was stated that the business was an old-established one. During the year to March 1934 the turnover was £921, with a net loss of £115. In the three following years the turnover declined and net losses were incurred. For the twelve months to March of the present year the sales were £665, and a net profit was earned of £15. The premises were held on a lease, which had forty-five years unexpired, at a rental at £52 per annum. It was further stated that the cash creditor would withdraw his claim. It was decided that the voluntary liquidation of the company should be continued with the liquidator nominated by the shareholders.

W. J. Axe, Ltd., Wavertree Road, Liverpool, chemists. The statutory meeting of the creditors was held recently at Liverpool, when Mr. H. T. W. Axe, a director of the company, occupied the chair. The statement of affairs showed liabilities of £867 3s. 7d., whilst, after allowing £9 14s. for preferential claims, the net assets were £421 11s. 3d., or a deficiency of £445 12s. 4d., so far as the creditors were concerned. The issued capital of the company was £100, and as regarded the shareholders there was a deficiency of £545 12s. 4d. The company, it was reported, was incorporated in April 1937 with a nominal capital of £100, all of which had been issued and was fully paid up. The company was formed for the purpose of taking over a business which had been carried on for many years by Mr. W. J. Axe. The latter died in January 1937. The purchase price of the business was £667, and the trustees of the late Mr. W. J. Axe agreed to leave that amount on loan to the company. Accounts which had been prepared disclosed that during the period to January 31, 1938, the turnover was £908, with a net loss of £165. No directors' fees had been paid since the incorporation of the company. An offer was recently received to purchase the business, with the exception of the book debts, cash in hand and at bank, for £400, which was accepted. A resolution was passed confirming the voluntary liquidation of the company, with Mr. W. Lodge as liquidator. A committee was also appointed.

1938 News



JANUARY—New Year's Day and Burns' Night (Jan. 26) make the month socially active north of the Tweed. Illustration shows the then president of Pharmaceutical Society (Mr. T. Marns) at Burns' Night Supper organised by the Glasgow and S.W. Scottish Branch of the Pharmaceutical Society.

FEBRUARY—Second annual dance of Waterloo, Seaforth and Crosby Pharmacists' Association (now Crosby Pharmacists' Association) proves that chemists can relax during even the busiest dispensing periods.



MARCH—Air-Raid Precautions have claimed the attention of many Branches of the Society during the year. Preston pharmacists were early in the field and are here seen receiving a lecture on anti-gas measures, accompanied by practical demonstrations, from the chief constable of Preston.



APRIL—From our issue of April 9 is taken this illustration of a presentation by Mr. G. A. Tocher, for the North London Pharmaceutical Association, to Mr. H. Skinner upon his completion of 25 years as its secretary.

MAY—The Empire Exhibition, Glasgow, which remained open several months this year and was visited by many pharmacists during Conference week, received its official opening by the King on May 3.



JUNE—Lord Leverhulme (left - centre, above) headed a deputation from England to the fifty-seventh annual meeting of the Society of Chemical Industry, held this year at Ottawa, Canada, on June 20 and succeeding days.

in PICTURES

A PICTORIAL RECORD OF EVENTS ILLUSTRATED IN THESE PAGES DURING THE MONTHS OF 1938

JULY—One of many annual conferences held in a favourite month for this type of gathering was that of the British Medical Association, held at Plymouth. The picture shows the doctors in full academic dress attending an official church parade during the Conference. The British Pharmaceutical Conference, usually held in July, took place this year in September.



AUGUST—The holiday month was enlivened by the news that Miss Pamela Wrinch, eleven-year-old daughter of a Cambridge scientist, had been made a member of the British Association for her work in making models illustrating molecular structure.



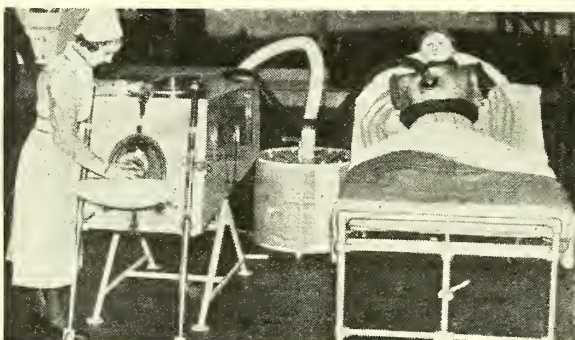
NOVEMBER—Representatives from many centres met at a special Delegate Meeting of the Irish Drug Association held in Dublin on November 1 when measures against "penny sales" were decided on.



SEPTEMBER—The British Pharmaceutical Conference attracted an exceptional number of pharmacists to Edinburgh. Sir Louis Gumley (Lord Provost) and Lady Gumley are shown welcoming guests at civic reception at the Assembly Rooms on September 12.



OCTOBER—The second extension to the Heriot-Watt College, Edinburgh, since its absorption of the pharmacy school of the Royal Public Dispensary was formally opened on October 18.



DECEMBER—The presentation by Lord Nuffield of an iron lung to every hospital within the British Empire was announced early in the present month. He is to make them.

Trade Notes

SHOP FITTINGS.—Rudduck & Co., 219-227 Old Street, London, E.C.1, offer to help chemists furnish their shops from reconditioned drug runs, wall cases, dispensing screens, etc.

REDUCED PRICES.—Schering, Ltd., 185-192 High Holborn, London, W.C.1, announce a reduction in price from January 1, 1939, in Testoviron, which will also be issued in new packings. Details are given in our advertisement pages.

WINTER PASTILLE BONUS OFFER.—Robert Gibson & Sons, Ltd., Carlton Works, Erskine Street, Hulme, Manchester, 15, are offering a special bonus offer on winter pastilles, details of which are given elsewhere in this issue.

SALE POSTERS.—Dudley & Co., Ltd., 451 Holloway Road, London, N.7, have produced an illustrated list dealing with their special sale posters and tickets. Copies may be obtained on application.

PAGE-BARKER'S SPECIAL OFFER.—A special New Year gift in connexion with Dr. Page-Barker's scurf and dandruff lotion is offered as in former years to the trade. Full details are given elsewhere in this issue. Orders may be placed with Thos. Christy & Co., Ltd., 4-12 Old Swan Lane, London, E.C., and the offer terminates on February 28.

1939 POCKET DIARY.—James Taylor (Trongate), Ltd., wholesale and manufacturing chemists, Glasgow, have sent us a specimen of their pocket diary for 1939. This diary contains a synopsis of the Pharmacy and Poisons Act and of the Methylated Spirits (Sale by Retail) Scotland Act, 1937, together with other useful information.

CHANGE OF ADDRESS.—Croda, Ltd., announce that from January 1, 1939, their London office address will be 403-4 Cecil Chambers, Strand, London, W.C.2. Technical advice on Croda products may be obtained on request from Mr. E. Cannon, technical director, who will be in charge. An invitation is extended to overseas friends to visit when in town Messrs. Croda at the new address.

BRYLCREEM.—Elsewhere in this issue a four-page advertisement directs attention to the policy of The County Perfumery Co., North Circular Road, London, N.W.10, in relation to Brylcreem, which is described as the largest-selling hair dressing in Britain. The sale of this product has been restricted to chemists and hairdressers, so that Brylcreem is not obtainable from grocers, confectioners, cut-price shops and the like. In return, chemists are asked to stock and display Brylcreem on their counters and windows.

NEW PARKE, DAVIS PRODUCT.—Epanutin is the name applied to a compound introduced by Parke, Davis & Co., Beak Street, Regent Street, London, W.1, which is stated to exert a marked anti-convulsant action in epilepsy and has relatively little hypnotic effect. Chemically, Epanutin is the sodium salt of 5,5 diphenyl hydantoin. It is an odourless, white or cream-coloured powder, soluble in water. This substance is supplied in bottles of 100 $\frac{1}{2}$ -grain capsules.

W. H. SAUNDERS ESSAY.—The subject set in the 1938 essay competition, open to employees of Ayrton, Saunders & Co., Ltd., Liverpool, under the age of twenty-one, was "Events which led up to the International Crisis in September and its Consequences." The following awards have been made:—First prize, £3 3s., Charles Hale (printing department); second prize, £2 2s., Annie Walker (office); third prize, £1 1s., Robert Stott (box factory).

BUTYWAVE PREPARATIONS.—From January 2, 1939, all orders for Butywave preparations, which include Buto hair remover and Butylar for the skin, should be sent direct to the proprietors, Biometica, Ltd., 5 Rampayne Street, London, S.W.1, who are combining manufacturing and distribution under their new trading policy. A national advertising campaign will shortly be started.

PACKARD ROTO SHAVER, which is now extensively advertised in national papers, is distributed in the United Kingdom by G. B. Industries, Ltd., 39-41 Clifton Street, London, E.C.2, who will send terms on application. This razor is supplied with two heads, an extra one for moustache or as a depilator for women. The roto shaver cuts the hair with four rotary blades and is not based on a shearing and cutting action.

HANLEY DRY SHAVERS.—Orel-Micro Electric, Ltd., 39-41 Berners Street, London, W.1, ask us to state that they are the sole licensees for Hanley dry shavers for Europe. In the event of chemists being offered shavers which apparently do not come from this company and do not carry their guarantee, such firms or individuals are asked to communicate at once with Messrs. Orel-Micro Electric.

NEW ALLENBURY PRODUCTS.—Allen & Hanburys, Ltd., Bethnal Green, London, E.2, have introduced the following products:—Sulphonamide-*p* lozenges, each of which contains $2\frac{1}{2}$ grains of sulphonamide-*p* in a specially prepared base, suitably flavoured. These lozenges are intended for use in streptococcal tonsillitis and are issued in bottles of 25. Nicotinic acid tablets, each tablet containing 50 mgm. of nicotinic acid, considered to be the anti-pellagra factor of the B vitamin complex. These tablets are used in the prophylaxis and treatment of pellagra and are issued in bottles of 100.

1939 CALENDARS.—We have received calendars from the following:—Stafford Allen & Sons, Ltd., Wharf Road, London, N.1; J. F. Macfarlan & Co., 93-109 Abbeyhill, Edinburgh; Antoine Chiris, Ltd., 17 Bishops Court, Old Bailey, London, E.C.4; Charles Zimmermann & Co., Ltd., 9 and 10 St. Mary-at-Hill, London, E.C.3; The Abietan Manufacturing Co., Ltd., Concordia Works, Carmichael Road, London, S.E.25; Chemists' Mutual Insurance Co., Ltd., 4 Queen Square, London, W.C.1; Potter & Clarke, Ltd., 60-64 Artillery Lane, Bishopsgate, London, E.1; Ormerods, Ltd., 125 High Holborn, London, W.C.1; Ensign, Ltd., 88-89 High Holborn, London, W.C.1.

Trade-Mark Applications

(From "The Trade Marks Journal," December 14, 1938)

SCHEDULE III

- "KAL-MONE"; for all goods (3). By Clinical Products, Ltd., 19 Charing Cross Road, London, W.C.2. 586,165.
- "SANATOGEN" on carton design and on label design; for medicated preparations of casein and sodium glycerophosphate; "SANAGON," "SANATOGEN," "SANATOSIN," "SATOGEN"; for all goods (3); "SANATOGEN"; for all goods (39). By Genatosan, Ltd., 43 Regent Street, Loughborough. 587,151/3/6/48/59/62/49. (Associated.)
- "SIANARTS"; for spraying apparatus (11). By The York Medical & Surgical Rubber Co., 67 Petergate, York. 587,091.
- "MARIE ANTOINETTE"; for perfumery (48). By The Marie Antoinette Co., Ltd., 1 Grenville Road, London, N.19. 586,552. (Associated.)

SCHEDULE IV

- "RETEX"; for horticultural peat fertiliser (1). By Universal Peat Co., 25 High Street, Tunbridge Wells. 602,163.
- "VAMP"; for perfumery, etc. By Joshua Margerison & Co., Ltd., White Windsor Soap Works, Leighton Street, Preston. 601,449.
- "PLANTATION"; for essential oil of peppermint (3). By W. H. Hobbs & Co., Ltd., 1 Trinity Place, London, E.C.3. 601,459.
- "LAND OF SMILES"; for perfumery, etc. By The Dubarry Perfumery Co., Ltd., Goldstone Laboratories, Hove Park Villas, Hove. 601,954.
- "HARGROLO"; for lotions, soaps, etc. (3). By Hargrolo Co., 54 George Street, Portman Square, London, W.1. 602,276.
- "CALGLUQUINE"; for pharmaceutical substances (5). By Chemical Works, formerly Sandoz, 60 Fabrikstrasse, Basle, Switzerland. 600,015.
- "IMMUNORA"; for vaccine (5). By Research Products, Ltd., Nan Clark's Lane, London, N.W.7. 600,230.
- "MAY FAIR A" (letter "A" disclaimed); for all goods (5). By Savory & Moore, Ltd., 61 Welbeck Street, London, W.1. 601,189. (Associated.)
- "SVEDIA"; for dental products and disinfectants (5). By Svedia Dental Manufacturing Co., Ltd., 20 The Mall, London, W.5. 600,362. (Associated.)
- "BANKODINE"; for ointments (5). By R. T. Banks, Stamford House, St. Patrick's Road, Coventry. 600,443.
- "WIZARD"; for a preparation for colds (5). By G. M. Rothwell, The Red Lodge, Waterloo Road, Crowthorne, Berks. 601,200.
- "OLPED"; for pharmaceutical substances (5). By Waterson & Co. (Proprietary), Ltd., 9 Adderly Street, Cradock, Cape Province, Union of South Africa. 601,295.

Marriages

CUMBERLAND—HODSON.—At St. Wilfrid's Church, Kirkby-in-Ashfield, Notts, on December 26, Frank Charles Cumberland, Ph.C., Blackburn, to Edna Hodson.

SMAIL—BARBOUR.—At Claremont Church, Glasgow, on December 12, David C. Smail, M.P.S., to Margaret J. Barbour.

Deaths

EDDY.—On December 20, Mr. John Miller Eddy, M.P.S., 17 High Street, March, aged eighty-three.

MASON.—At 140 Malpas Road, Newport, Mon., on December 24, Mr. David Mason, governing director of Crindau Chemists, Ltd., Newport, aged forty.

ROBERTS.—Recently, Mr. Joseph A. H. C. Roberts (J. A. Roberts, Ltd., chemists), Church Street, Blaydon-on-Tyne, aged fifty-eight.

SHAW.—At Keston, Kent, on December 26, following an operation, Mr. Kenneth G. Shaw, director of The British Drug Houses, Ltd., London, N.1, aged forty-seven.

STANYON.—Mr. Wallace Pring, M.P.S., Bromley, writes:—Mr. Stanyon's sudden death (C. & D., December 17, p. 667), after a brief illness, came as a great shock to the West Kent Chemists' Association, of which he was a very popular member. He held the office of president in 1931-2 and succeeded Mr. C. G. Pinchen as treasurer in 1937. Apprenticed at Stamford, in Lincolnshire, after varied experience he settled down in business at Beckenham about ten years ago. He married Miss Olive Wing, daughter of the late Mr. A. J. Wing, Woolwich, leaving her with two daughters and a son. The funeral service took place on December 19 at the Streatham Crematorium, the West Kent Association being represented by Mr. D. A. Rees (president), Mr. G. E. Butler (vice-president), Messrs. Price and Bone (past-presidents), and Messrs. Hamer, Holden, Leather, and Pring.

THOMAS.—Recently, Mr. John Llewelyn Thomas, M.P.S., 46 Roath Court Road, Cardiff, aged thirty-four.

YATES.—Suddenly, on December 21, Mr. William Yates, M.P.S., Market Street, Shaw, Oldham. Mr. Yates passed the Minor examination in 1898. He was one of the founders and a past-president of the Oldham Chemists' Association, and for many years he has acted as auditor. Shortly after commencing business he became connected with the Crompton Tradesmen's Association, of which organisation he was secretary for more than thirty years. The funeral took place at Crompton Cemetery on December 24, and among those who were present were Messrs. S. Radcliffe, R. H. B. Whitehead, R. Gorbett, H. Bagshaw, W. Garside, J. W. Thompson and A. Davies. Mr. Yates is survived by a widow and two sons.

Recent Wills

MR. RICHARD JEANS MARSHALLSAY, M.P.S., Thetford Cottage, Worgret Road, Wareham, who died on October 2, left £20,260, with net personalty £17,081.

MR. WALTER HENRY DUNFORD, Ph.C., Elgin Park, Redland, Bristol, who died on October 17, has left estate of the gross value of £7,425, with net personalty £5,649.

MR. EDGAR MARSHALL BROWN, 10 Rugby Road, Worthing, retired chemist, who died on August 29, left £9,500, with net personalty £9,444.

MR. JOHN GOWER, 3 The Square, Llanharan, Glam., chemist and druggist, who died on September 12, has left estate of the gross value of £1,111, with net personalty £947.

MR. GEORGE MYHILL COBB, M.P.S., 7 Milton Place, Halifax, retired chemist, who died on October 20, has left estate of the gross value of £2,346, with net personalty £2,303.

MR. FREDERICK WILLIAM FITCH, M.P.S., Halstead, Essex, and late of 14 Fouberts Place, London, W., who died on October 22, left £5,450, with net personalty £5,407.

Personalities

MR. R. L. TAYLOR is joining the board of directors of Johnson & Sons Manufacturing Chemists, Ltd., London, N.W.4, on January 1, 1939. Mr. Taylor joined the company in 1919, and was assistant buyer at their premises in Cross Street, Finsbury, for three years. In 1927 he became home sales manager at the Hendon works of the company, which position he has occupied for eleven years. In 1933 he went to Manchester to open a branch office, and for five years was branch manager and representative for Lancashire. He has taken a keen interest in the work of several associations, including the Photographic Dealers' Association of Great Britain, the Institute of British Photographers and the Wholesale Drug Trade Association, and has served on the council of the latter for a number of years.



MR. R. L. TAYLOR

MR. A. E. COULTHURST, sales manager of Parkinsons, Ltd., manufacturing chemists, Burnley, has gained the Instructor's L.A.G.C. (Local Anti-Gas Certificate) issued by the chief constable of Burnley.

MR. U. AYLMER COATES, M.P.S., and Mrs. Coates, Burnley, celebrated the diamond jubilee of their wedding on Christmas Day. Until his retirement in 1928 Mr. Coates was for many years with R. Parkinson & Sons, manufacturing chemists, Burnley.

At a recent meeting of the Chemical Society it was announced that Professor Robert Robinson, F.R.S., Waynflete Professor of Chemistry at Oxford University, has accepted nomination to the office of president for the period 1939-41. The Longstaff Medal for 1938 has been awarded to Professor I. M. Heilbron, D.S.O., F.R.S. At the meeting of the Harrison Memorial Prize Selection Committee it was unanimously decided that the Harrison Memorial Prize for 1938 should be awarded to Mr. Alexander King.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Tuesday, January 3

Birmingham Pharmaceutical Association, Imperial Hotel, Temple Street, at 8.45 p.m. Mr. A. L. Bacharach, M.A., F.I.C., on "The Vitamins."

Wimbledon Pharmacists' Association, Wimbledon Town Hall, at 8.30 p.m. Miss B. Sharples, Ph.C., on "Getting the Right Perspective."

Wednesday, January 4

Portsmouth Branch, Pharmaceutical Society, Royal Beach Hotel, at 8 p.m. Dance.

South-West London Chemists' Association, Ardington Rooms, Clapham Junction, S.W.11, at 7.30 p.m. Party and supper dance.

Thursday, January 5

North London Pharmaceutical Association, Small Queen's Hall, Langham Place, W.1, at 8 p.m. Supper and dance.

Liverpool Branch, Pharmaceutical Society, Royal Institution, Colquitt Street, at 8.30 p.m. Meeting.

BIRMINGHAM PHARMACEUTICAL ASSOCIATION.—A dance will be held at the Farcroft Hotel, Handsworth, on January 11, at 8 p.m. Tickets, 3s. 6d. each, from Mrs. E. W. Mann, Miss I. Smith and Mrs. D. J. Rushton.

PHARMACEUTICAL SOCIETY.—The third evening meeting of the session will be held at 17 Bloomsbury Square, London, W.C.1, on January 10, at 8.30 p.m., when Professor Gaddum will give a lecture on "Recent Discoveries about Animal Hormones."



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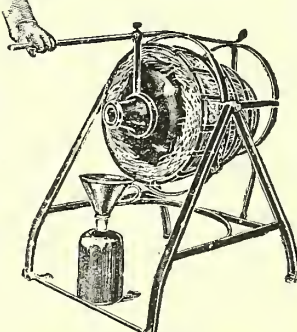
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Pharmacy in 1938

THE year which is now drawing to a close will be remembered by many as one of striking contrasts, not unmixed with anxiety. An urgent call for organisation in preparation of defence for the home front against forces dimly understood, followed by days of throbbing uncertainty in September, cannot easily be forgotten. Air raid precautions against poison gas and other consequences of aerial warfare affected pharmacists beyond anything officialdom had conceived. Only reality would have proved pharmacy to be a vital link in meeting such a national emergency. Throughout the year, in our pages, there runs the thread of the national service which pharmacy could present. We have not reached the end of these disturbing elements; but this review is of the year 1938. Some happenings during the year may provide good experience in extending our knowledge for wider usefulness. The Indian Science Congress in January received a visit from representatives of the British Association, and as Lord Rutherford, the president, had died late in 1937, his colleague, Sir James Jeans, stepped into the breach and read the address. The year was the centenary of the birth of Sir William Henry Perkin, the discoverer of mauve, which led to the development of the synthetic dye industry. This story was outlined in March by Mr. William Kirkby, and in November by Dr. H. Levinstein, when the Chemical Society and the Society of Chemical Industry held a commemoration meeting. The National Budget this year was anticipated with some trepidation by pharmacists owing to an unfavourable report by the inquiry committee on taxation of proprietary medicines and cosmetics. The problem proved to be a thorny one for the Chancellor of the Exchequer, but it was hinted that something might be done at a later date.

In February another step was taken by the Health Section of the League of Nations in the establishment of an international committee of pharmacists to examine the possibility of a pharmacopœia of standards for potent

drugs. The secretary of the Pharmacopœia Commission, Dr. C. H. Hampshire, was appointed the chairman. In the same month the new French Codex (sixth edition) became official, and many changes that had been made were examined and published. The military hospitals pharmacopœia was issued later and was critically examined by Mr. Alec Rae, who pointed out that in several particulars the contents did not harmonise with customary hospital practice.

During April the Government made a welcome gesture to Eire and came to an agreement which affected many pharmaceuticals by removing restrictions. Another outstanding feature of the past year was the Empire Exhibition at Glasgow opened by H.M. the King. The exhibition was described and illustrated in our Special Issue in June and at other times in weekly issues. That it was a great success is a tribute to the organisers, among whom were several pharmacists. In the United States of America, in June, the new Federal Food, Drug, and Cosmetic Bill for interstate commerce was signed by President Roosevelt and became law. It is not yet in full operation, though the tentative regulations put forward in October clearly show that the drug and cosmetic industry will have its difficulties of manufacture and sale increased. It may be hoped, should any legislation in this direction be tried in this country, that regulations less drastic will be constructed.

Some ardent spirits among pharmaceutical employees decided in June to attempt again the formation of a non-political and non-union organisation for assistants. So far, their enthusiasm and belief in themselves has given them encouragement and expectation of success.

The Food and Drugs Act, 1938, received Royal Assent in August. It was mainly for the purpose of consolidation, and it was clear that there was no opening for any legislation on proprietary medicines. The registration of trade marks was also clarified in an Act at the same period, and an improvement in the classification for registration was made. Research workers have been particularly active and in medicinal substances following the success of sulphanilamide therapy in streptococcal infections, and the introduction of M. & B. 693, 2—(*p*-aminobenzenesulphonamido) pyridine, represented a considerable advance in the synthesis of sulphanilamide compounds.

The Statutory Committee of the Pharmaceutical Society has functioned several times in the year and the Pharmaceutical Council election was the quietest for years. The disturbing elements of the preceding year seemed exhausted and all the old members of Council were easily re-elected. The balance-sheet of the Society, published in our issue of April 16, gave some striking figures; the total income was £123,237, being an increase of £3,627 while the expenditure was £107,698, an increase of £8,505. Such progressive expenditure bodes little good for maintaining a £400,000 house even if it can be built without further loans. It was interesting to note that the premises fee was to be used for law administration and not an addition to general funds. The new president of the Society elected in June was Mr. T. Guthrie, who was co-opted to the Council the first time in 1916. He is the second Scotsman to reach the presidential chair. The vice-president elected was Mr. W. Deacon, Bridgwater, so again the chief positions are allocated to the provincial members of the Society. The British Pharmaceutical Conference was held in September at Edinburgh and a former resident secretary in Scotland of the Society, Mr. J. Rutherford Hill, was the chairman.

The Markets during 1938

DURING the past two decades those engaged in industry and commerce have had to contend with ever-changing conditions and the closing year has brought no relief from this prolonged period of world-wide economic and political upheavals. Yet, despite these unfavourable circumstances industry in this country has been carried on in a steady and, in some instances, progressive manner. There has been no serious breakdown, except in the textiles industry; the financial position has at no time been seriously threatened and has withstood a series of shocks; the country has been practically free of industrial strikes and, although some of our best export markets have, for the time being, been lost, our shipments to overseas markets will show only a small decline compared with those of 1937 and will be greater than the 1936 totals. During the first six months of the year our seaboard trade, imports and exports, steadily declined, with a gradual recovery recorded during the second half of the year. This improvement in our trade, as regards exports, is due almost entirely to greater purchases by Empire countries, and it is becoming very evident that, for all concerned, the encouragement and expansion of trade within the Empire is essential to counter the persistent contraction of our shipments to foreign countries. There is, however, one disturbing feature, insignificant in past years, but now fast becoming a menace to our home industries, in the conditions of Empire trade. We refer to the fact that the leading Commonwealth countries are becoming industrialised and with free entry to this market, a wide range of their manufactured goods are now keenly competitive. The original basis of inter-Empire trade was a free exchange of our manufactured goods for colonial foodstuffs and raw materials. This principle may have to be adjusted in view of the increasing quantities of competitive manufactured goods that are now coming in regularly from the Empire, particularly from Canada.

The chemical industry of this country is comparatively modern and continues to progress. The demands of industry for its thousands of products show no sign of slowing up. The industry, in all its branches, is now one of the most important in the country and its strength and ability to meet national and industrial requirements is of the utmost importance. Where conditions permit it is now well able to compete for overseas business. Business in crude drugs and essential oils, most of the products of which are imported, has been exceptionally difficult and, of necessity, both importers and home consumers, adopted the policy of buying from hand-to-mouth. In these markets, sales prices have, with some few exceptions, ruled unusually low. Consumption of crude drugs seems to have been well up to average while the demand for essential oils continues to be adversely affected by synthetic substitutes. Competition for business has throughout been keen, and this has led to sophistication of these products becoming almost a general practice. It has been all too plain during the year that the demand for genuine oils of fine quality is still decreasing, while, unfortunately, with various new sources of production, supplies of some oils are now in excess of world requirements.

During the year a number of important revisions in the sales values of pharmaceutical chemicals were recorded, but with conventions controlling many of these products the changes were not so frequent nor so drastic as they might otherwise have been. Following on steadily increas-

ing prices during 1937 the home trade value for glycerin (B.P.) was reduced substantially in January, and a further decline was recorded later on in the year. For some time there had been a world shortage of this important product and supplies were rationed to consumers; it is, however, noted that the producers charged less for home trade than they obtained for export business. Convention prices for barbitone and sodium diethylbarbiturate weakened at the beginning of the year. One of the features of this market was the persistent demand for ephedrine salts, but, with the shortage of supplies less acute than in the previous year, prices gradually moved back from 14s. 6d. per oz. for hydrochloride in January to 7s. in June and to about 6s. in August. Convention prices for aspirin, powder and tablets, continued unchanged throughout the year up to December when, apparently due to some outside competition in the powder, a reduction of 4d. per lb. was deemed necessary. Benzoic acid (B.P.) and sodium benzoate (B.P.) show a small decline in value. Makers' prices for bismuth salts have remained unchanged for the year. Sales prices for the three products, citric and tartaric acids and cream of tartar, also show no change. Home trade prices for cocaine and salts were quoted without change. Due to substantial increases in the cost of crude iodine makers' prices for iodides show an increase of 9d. per lb. Makers' sales prices for mercurials finish the year at level figures, although the London price of the metal in January was £12 17s., against today's figure of £15 4s. per bottle. The present comparative low prices for the salts are due, it is reported, to keen competition from Italy. There has been no change in makers' home trade prices for methyl and sodium salicylates and salicylic acid; conditions in these markets now seem steadier than they were at times during the year. The imported products, phenazone, sulphonal and methyl sulphonal have been weak features all the year, generally selling at less than the "paper" prices. Reports indicate that the good range of British-made photographic chemicals have sold in increasing quantities, although some of these products have had to contend with Continental competition. The domestic production of potassium permanganate has taken most of the home trade business. The Convention prices for quinine salts show a slight advance on the year with sulphate one penny per oz. dearer; this is due, chiefly, to sterling depreciation on exchange. Salol has been one of the weakest items in this market. Vanillin shows one of the biggest declines on the year, the loss amounting to 1s. 6½d. per lb. on cwt. lots. With the introduction of supplies from an entirely new raw material in America and Canada, it seemed likely, at one time, that an even greater reduction might be necessary, but so far imports of this new type material have been negligible.

Sales prices of most crude drugs and similar products in January were at a low level, the spot value in many instances being less than the cost of replacement. Shipment prices had for some time been uneconomic and, whether they were wild or cultivated crops, supplies at the sources were generally restricted. For these reasons values of only a few commodities have shown but minor depreciation during 1938 while others have appreciated. There has been dislocation or complete stoppage of supplies of some products from the usual sources, due to internal strife and international conflicts and in these instances prices have naturally advanced. The demand throughout the year has been moderately good for home consumption while, during the

past three or four months, re-export trade has increased. The Baltic countries in particular have found London convenient, for financial and other reasons. Supplies of aconite root have been limited throughout with high prices ruling. In January agar was quoted at 3s. 7d. for Kobe No. 1 and was down to about 2s. 10½d. by the half-year. Values have since recovered and close very firm at 3s. 7d. with the shipment figure comparatively dearer. In aloes, the Cape product has declined a full ten shillings per cwt. during the year, while Curaçao has been very firm all the time with prices on the increase, opening at 140s. to 147s. 6d. and closing strong at 175s. to 190s. per cwt., as to quality. Business in this article has been good. Chinese crude antimony shows a loss of £8 per ton but is still quoted at well above the normal price. In the early months of the year there was a shortage of *Canada* balsam with the spot price 5s. 6d. per lb. The value weakened sharply in due course and latterly has recovered to about 3s. There was little doing in Sumatra benzoin for some months but in September the London market advanced about five shillings per cwt. Buchu has had a poorish year and values have weakened in a rather marked manner. There is no shortage of supplies here and the outlook for the forthcoming crop does not indicate any recovery in values. Japanese camphor has had to meet increasing competition from the Continental synthetic product and a home source of supply is now likely to further affect the sales of this Eastern product in this market. For some months, on account of the paucity of supplies, values for cardamoms were firm at good prices and at succeeding London auctions all lots were sold. A rather easier position followed, but at the close of the year the market again showed considerable strength. The opening prices for cascara sagrada were not maintained, with buyers for shipment holding off. At the half-year the source was quoting 34s. 6d. per cwt. c.i.f. In August the market strengthened considerably and since that time the very limited offerings have been at better figures. Spot values show a net loss of about five shillings per cwt. on the year.

Supplies of Derris Root

Export trade in Norwegian cod-liver oil has had a poor year and, in consequence, prices have fallen fully eight shillings per 25-gallon barrel. Shipments to America, and to some extent to this market, have declined. The volume of business transacted in derris root has been disappointing and values have declined to a low level. With various new and increasing sources of supply, some of which are cultivating this product on a large scale, the outlook as regards sales values is not promising. The values of ergot have moved up and down all the year with very high prices ruling at times. There has been no Russian material and very little Spanish; the main supplies have been drawn from Poland (these have now ceased), Portugal and Bulgaria. London prices were very dear in January with Portuguese about 5s. per lb., with the current value one shilling less. West African ginger was up to 52s. 6d. per cwt. in January but quickly fell to about 27s. 6d. and in the closing months was no more than 22s. 6d. per cwt. The Jamaican product has also weakened a little. The market in Sudan gum acacia was not particularly healthy in January and, except when efforts were made to bolster up the position, the market has been quoted at low figures all the time, showing a slight turn for the better at the end of the year. Prices for most descriptions of honey show a loss on the year and it is to be noted that Californian and other foreign products will come in at a reduced rate of duty next year. This is not

likely to affect London prices, and with stocks on hand here reported to be much less than they were twelve months ago, the position is rather brighter. Fairly good prices have been recorded for hydrastis all the year with the closing value about two shillings less than a year ago. Business in Matto Grosso ipecacuanha has been patchy and at intervals good prices were recorded; latterly, however, with the demand quiet, the market has weakened a little. The opening and closing London prices for Japanese menthol are about level for the year, and the margin of fluctuation has been much less than usual. The Chinese product has consistently been quoted at rather cheaper prices, but the demand for this product is still comparatively negligible. A French product has also been offering here. Spanish-Italian mercury has been at high figures all the year and closes £2 7s. per bottle dearer. London sales of opium, a good deal for re-export, have been very good this year. Values of all descriptions of rhubarb eased in the early months of the year, but with the stoppage of regular shipments from China the London market recovered and closes firm, tending to go dearer. The lack of supplies of Jamaica grey sarsaparilla has been a feature of the London market. Senega was a strong market in the early months of the year but eased a little at the half-year. In October values advanced sharply, and since that time the position has been very firm with no shipment offers. High prices have been maintained throughout the year for tragacanth but sales have probably been rather less than usual. Bees' and carnauba waxes are all quoted substantially cheaper on the year.

The Coming Year

The past year has been exceptionally difficult to everyone active in the chemical and allied trades, yet the results, we believe, have been better than was contemplated. Values of commodities have moved up and down, sources of supply have been changing, conditions of trade have been at times hazardous. The latest and best information on markets has been an essential factor in business. In publishing reliable, independent and up-to-date information in the Trade Report, pages of commercial news and special articles each week, THE CHEMIST AND DRUGGIST has provided the trade with an unique and valued service. We are aware that these commercial features of the *C. & D.* are followed regularly not only in London but throughout the world. Certainly, no less than in the past, these trade columns will, during the coming year, provide authoritative and complete information on market values and all commercial matters of interest to the chemical, drug, essential oils and allied trades.

The outlook for the coming year for trade depends almost entirely on two conditions, namely, a revival of trade in the United States of America and the course events take in the European political situation. Given more settled conditions in world affairs, it is generally viewed that the American markets would improve. Under such favourable circumstances there is no doubt that this country would take part in the general expansion of industrial and commercial activity. Whatever the conditions of world trade during the next twelve months this country will undoubtedly continue to maintain its premier position. Economically, financially and industrially, we are in a better position to survive further difficult times than any other country. It may well be, however, in twelve months' time, we shall be able to record a better and saner condition of affairs in the world and with it a steady expansion of our trade.

Army Dispensing in India

By Sergeant F. Hannan, R.A.M.C.

WITH a "Sahib, Sahib . . . sat baje hain," my bearer wakens me for another day in the life of a sergeant dispenser of the Royal Army Medical Corps in charge of a typical military hospital dispensary in India. Entering the dispensary at eight-thirty, I am greeted with a cheerful "Salam, Sahib" by Christian ward-servant Joseph, who is putting the finishing touches to two hours of routine dusting and polishing. Checking the poison seals, scales and general cleanliness brings us to the filter solutions and replenishments of hand bottles. By nine-fifteen indents are received from wards, departments and medical inspection rooms of outside battalions, accompanied by reasonably clean bottles and corks. All bottles, having been rewashed, are fitted with new corks where necessary and "externals" sorted from "mixtures." They are further separated into rows of same label on special distribution shelves. Replenishments from concentrated stocks is on the belt principle, with, of course, only one bottle on the counter at a time, and clearance of each stock for all departments in one line. This speeds up work considerably, and during the two and a half years since its introduction there have been no mistakes. Stocks are usually completed by eleven—checked, new labels typed and varnished where needed, and bottles or containers checked on to department shelves ready for book scrutiny and issue to ward-boys. Late stock baskets are a source of ruffled tempers, and nursing orderlies, knowing this, are careful, by sending down a native ward-servant who mutters "Me nay malam English, Sahib" ("I do not know English") to avoid the sergeant's caustic comments.

Medical Officers' Rounds

During the morning a medical officer with the appointment of staff surgeon travels round the cantonment visiting the sick members of high officers' families. Consultations are taking place at the adjacent military families hospital and doctors in charge of battalions are visiting the sick in married quarters and later arrive for ward rounds. There are usually at least six English doctors attached to a first-class military hospital, and they hold commissions in the Royal Army Medical Corps from the rank of captain to lieutenant-colonel, and are usually specialists in some particular department. In addition, there are a larger number of assistant surgeons, who also are prescribers, and these hold the rank of warrant officer, having in the majority of cases received degrees from the medical colleges in India. The military population is at least three thousand. From eleven onwards there is a continual stream of bearers with prescriptions, and many of them not only do not speak English, but know their sahibs only by some quaint pseudonym. A chit with number corresponding to prescription and pinned to the right arm of the bearer is the solution for this difficulty. Some strange terms find their way to the dispensary—for instance, the sick report of a soldier diagnosed "Plumbi pendilosis," meaning, in the vernacular, "swinging the lead." Complicated prescriptions are rare, and in this and all matters of prescribing, medical officers endeavour to work with consideration for the dispenser and the work in hand. Service conditions may strain stock reserves, and a tinea (ring-worm) outbreak at one time required the compounding of fourteen pounds of Whitfield's ointment (ung. acid. benz.) a day. Emetine bismuth iodide has many moments of popularity in amoebic dysentery, and likewise the bacillary form may account for extraordinary demands on sodium sulphate when large numbers of a military community are affected. Generally speaking, army dispensers are fortunate in that they work in close contact with doctors who keep, as far as possible, to the hospital pharmacopœia. Wards endeavour to give warning when suppositories, pills, salves or pastes like Unna's are required, so that they may be prepared during the evening, together with stock reserves of powders and mixtures for the following morning.

Afternoons are rest hours during the heat, and for this reason the dispensary is closed at one-thirty and handed over to an assistant surgeon on duty, who dispenses urgent requirements or sends for the dispenser if in need of assistance. With great delight we close and hurry to a welcome shower, cold drinks and an afternoon doze in the cool of our

bungalows. On slack days it is possible to bring all stocks up to date without need of returning in the evening. Manœuvres call for extra work from the dispenser, as each battalion or composite unit must be provided with a small medical inspection room or surgery complete with stocks. Horrocks' water testing; compounding of clarifying powder; provision of bottles for reception and identification of snakes; making fly sprays and sticky fly-papers, besides any of the numerous recipes from "Pharmaceutical Formulas," Vol. II, are among the many additional duties which add spice to the life of the army dispenser. Lecturing embryo dispensers is a further duty of a sergeant dispenser. Suitable senior corporals are selected for part A of the course, which is held at first-class parent hospitals to which they may be attached, and in slack moments the dispenser finds time to become immersed in the turgid waters of exercise-correction or the preparation of lectures, which usually take place in the cool of the evening, beneath fans or punkas, and in the dispensary.

Layout of a Military Hospital

The layout of a military-hospital dispensary differs somewhat from that of other hospitals in that it is more compact. Nothing has contributed more to the success of army-dispensing accountability than the system of keeping medical stores separate and writing off as expended all drugs issued to the dispensary. Arising from this, it is found, work is considerably eased by decentralisation of the duties not directly associated with pharmacy. Reserves of drugs and all medical stores or hospital equipment are maintained in an adjacent medical stores under the charge of another dispenser, who is in no way connected with the dispensary. This eliminates stock checks and works well in practice, as dispensers are men of proven trust. Occasionally an excessive expenditure may call for examination of ward indents with a view to curtailment by medical officers concerned. Wards apply direct to the non-commissioned-officer dispenser-in-charge of medical stores for clinical thermometers, measures, water beds, oxygen cylinders or other items of equipment. This leaves the dispenser free from interference and always on the spot for dispensing. Certain drugs are not authorised, as quantity does not justify bulk purchase, and therefore, when required, these are purchased locally from funds provided for this purpose. In making local purchases the trying conditions under which local English qualified chemists have to compete become apparent, as many Indian chemists are ready to sacrifice their bonuses in order to obtain an order. Wants lists are maintained and sent to medical stores to meet demands. Complete replenishments are made on Saturdays, and the medical stores in turn are re-stocked half-yearly on demands settled by the Medical Stores Depot, Bombay. Sliding glass panels beneath a generous white-tiled dispensing counter are found ample to house, in the partitions provided, the various drugs sorted to sections common to most dispensaries. Stock and hand bottles complete the picture above the counter, which runs down either side of the room and has a counter-sunk sink and desk. Entrance through glass swing-doors and lift-hatch would impress the English colleague with the unusual height, length, centre clearance and general appearance of coolness. Indeed, the dispensary the writer has in mind is a pleasant place to work in, having all the advantages essential in the East, and being designed to what must be the ideal specification of a dispenser. Spare moments afford opportunity for a visit to wards and departments for checking of poison and medicine bottles in need of re-labelling or varnishing. Apart from this, work is so arranged that the dispenser need never leave the department during normal hours. A greeting from passing medical officers serves as an occasion to draw attention to points for observation. Overdoses or incompatibilities, which are fortunately rare, are remedied by sealed chits to the medical officer concerned, carried by native runners or "chitty wallahs."

In the field, daily routine dispensing duties of the dispenser are so simplified, by concentrated stocks or tablets of proven value, that his lot would be an easy one were not other duties combined. Whilst tablets are much to the fore it must be appreciated that the days when the No. 9 was the panacea for

all ills is long past. Contents and methods of packing have undergone considerable revision during recent years and drugs carried in field panniers are constantly turned over, presenting a fine display of modern containers, packed ingeniously in different compartments and easily located from measures, etc., by contents lists inside the lids.

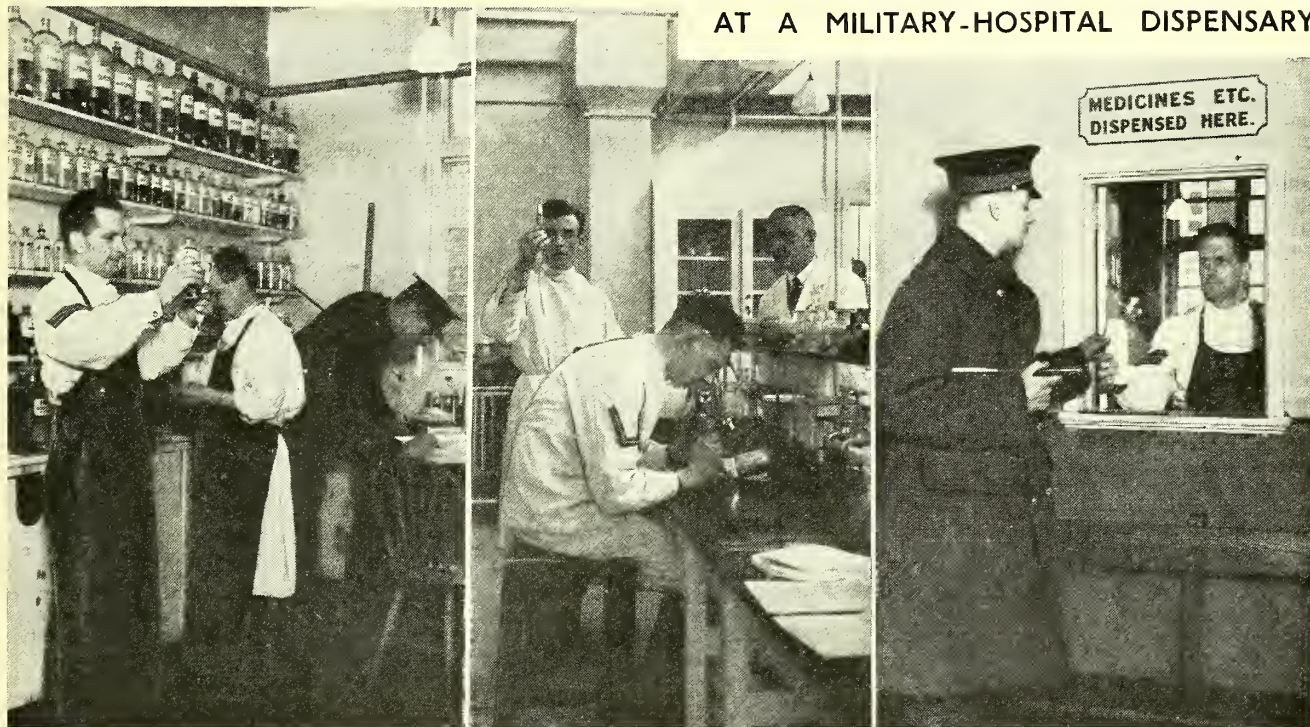
Service Conditions

What is to be said of the discipline? One must admit that it is no more stringent than the rule which prohibits smoking in shop hours, orders a man to open shop at 9 a.m., to eat at noon and to return to the counter until he is free

again. The dispenser in his daily duties is treated as a tradesman, and, provided he does his job of work well, life can be happy indeed in the East, with many pleasant hours of relaxation. In India the calling of a man is largely decided by a system known as "caste," and a soldier ranks next to a priest (at the top). Members of the general section, Indian Hospital Corps, are not strictly soldiers, but wear the uniform and are subject to military discipline.

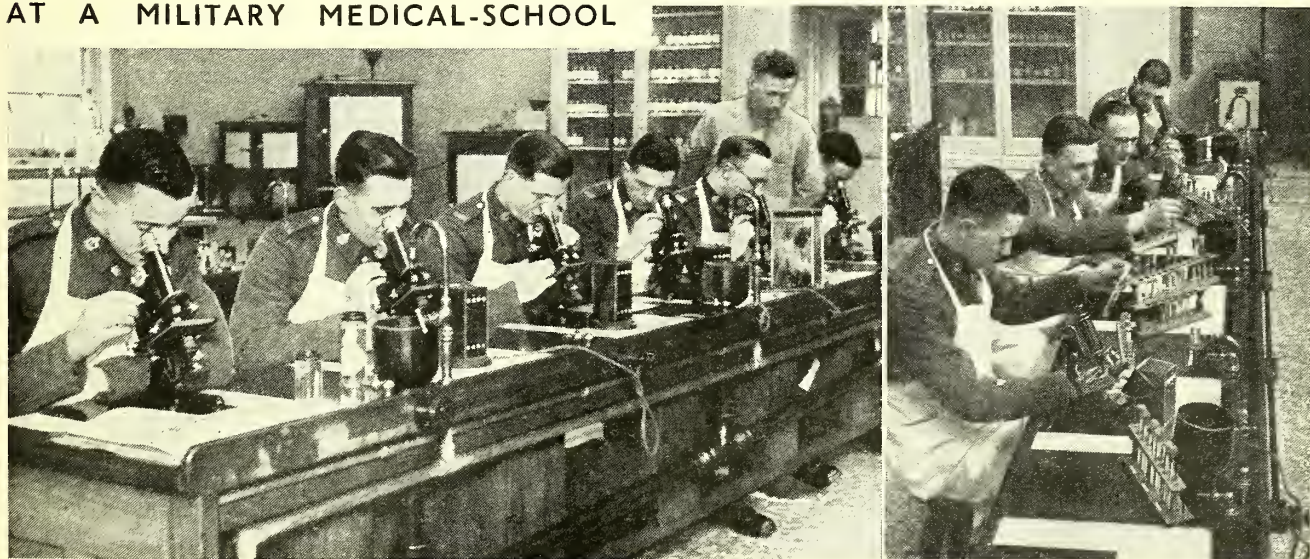
Previous articles in this series have been "A Day in a Hospital Pharmacy" (June 25, p. 770); "A Pharmacy Student's Day" (August 13, p. 145); and "A Day in a Prison Pharmacy" (December 3, p. 623).

AT A MILITARY-HOSPITAL DISPENSARY



DISPENSING SCENES AT QUEEN ALEXANDRA'S MILITARY HOSPITAL, MILLBANK, LONDON. Left, *Compounding a mixture.* Centre, *Carrying out a microscopical examination.* Right, *Private patient receiving his medicine at the batch.*

AT A MILITARY MEDICAL-SCHOOL



STUDENTS AT ROYAL ARMY MEDICAL COLLEGE, MILLBANK, LONDON. Left, *Examining sections of operating and post-mortem tissues.* Right, *Preparing specimens for microscopical examination.*

Employment of Young Persons

THE Young Persons (Employment) Act, 1938, which comes into operation on January 1, 1939, as its title indicates, regulates the employment of young persons, and employers in their own interests would be well advised to acquaint themselves with its provisions. Part I of the Act is intended to bring within the scope of statutory control young persons under the age of eighteen years who are employed in certain occupations which hitherto have been free from statutory control in these respects. So far as the drug trade is concerned it should be noted that the new law will apply to young persons who are "employed" in the collection or delivery of goods or in any carrying, loading, or unloading of goods incidental to the collection or delivery thereof (S 7 (1) (a)), such as boys who deliver goods at customers' houses. It may also apply in such cases to young persons employed "in connexion with a business carried on at any premises in carrying messages or running errands" (S 7 (1) (a)), such as errand-boys of any kind. But Part I of the Act, on the other hand, will not apply to young persons employed in any factory, whose hours of employment are governed by the Factories Act, 1937, nor to a limited extent to young persons employed in a shop, whose hours would be regulated by the Shops Acts.

Overtime

In the cases to which Part I of the Act applies, the following new rules with regard to hours of employment have been introduced: Subject to certain provisions with regard to overtime, the maximum permitted hours per week, in the case of a young person between the ages of sixteen and eighteen, is fixed at forty-eight. In the case of a young person under sixteen years of age the maximum hours per week, but only during 1939, will be forty-eight, but thereafter there will be a reduction from forty-eight to forty-four per week. Overtime is only allowable in certain special cases, i.e., on occasions of seasonal or other special pressures or in cases of emergency. In the case of young persons between sixteen and eighteen overtime is limited in the case of each individual to fifty hours in any year, and six hours in any week. Moreover, where an employer has already employed overtime any young persons in twelve weeks, whether consecutive or not, neither he nor any person succeeding to his business may employ any young persons overtime during the remainder of that year. It would be immaterial in such a case that no individual young person had already worked overtime for fifty hours in that year. As regards young persons under sixteen years of age, overtime is prohibited absolutely.

Intervals for Meals and Holidays

As regards intervals for meals and rest, a young person must not be employed continuously for more than five hours without at least a half-hour break, employment for this purpose being regarded as continuous unless at least half an hour's interval intervenes at some period in those hours. Moreover, where the employment also covers the period between 11.30 a.m. to 2.30 p.m. an interval of at least three-quarters of an hour must be allowed between 11.30 a.m. and 2.30 p.m. Employment must not go beyond 1 p.m. at least one day in each week; and a notice ("Notice A"), which is prescribed by the Young Persons (Employment) Order, 1938, indicating the day on which the weekly half-holiday is to be taken must be exhibited on the premises.

Night and Sunday Employment

With reference to night employment, no employment must take place between 10 p.m. and 6 a.m. in any case, and, further, an interval of at least eleven consecutive hours must be allowed between midday and midday. As regards Sunday employment, a young person who is employed on a Sunday for however short a time will be entitled to a whole holiday on a week day in a week which must be either preceding or succeeding the Sunday in question. A daily record on Form B prescribed by the above Order must be kept, and daily entries in respect of each young person must be made of the times of his employment, the intervals for meals and rest, and the total hours. Entries must be made also at the end of each week before midnight on the Monday following as to the total hours in that week, the overtime during that week, and any previous overtime. These records, moreover, must be preserved for not less than six months after the completion of each year. The employer must also exhibit an abstract of Part I of the Act in the form of Notice C under the above Order. If the age of the employee is at all called in question, a birth certificate may be obtained at a reduced fee of sixpence.

Penalties are imposed for non-observance of the new Statutory provisions, and not only fines but imprisonment may be imposed. Wide powers, moreover, are given to inspectors. They may enter and search the premises; they may call for the production of notices and records required to be kept or exhibited under the Act. They may also ask for information and interrogate any young person employed on the premises. Every facility must be afforded to the inspector by the employer, who, moreover, would be liable to a penalty for any obstruction of the inspector in the performance of his duties.

Recent Research

Longoza Oil

ACCORDING to "Rivista Italiana delle Essenze," 1938, 350, the essential oil of *Hedychium flavosum*, produced at Nossi-Bé and known as longoza oil, is a concrete mass melting at 30-32° or completely at 37°. By distillation, 22 per cent. of a pale yellow oil was obtained having the following characters:—

S.G. at 15°	0.9153
Optical rotation	-7° 20'
Ester number	54.6
Ester number after formylation	188
Phenols	20 per cent.
Methoxyl value	3.05 per cent.

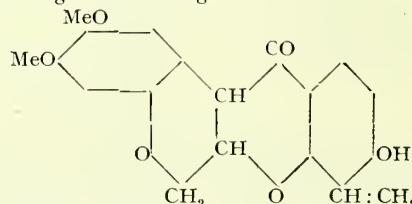
The fraction of the oil which was most highly odorous had a specific gravity 0.9666, optical rotation -10° 40', refractive index 1.5002 at 20°, and acidity 11.2.

Australian Essential Oils

REUTER ("Journal of the Proceedings of the Australian Chemical Institute," 1938, 289) describes a new class of compounds found in certain Australian essential oils. Macropone is a liquid keto-phenol present in oil of *Eucalyptus cineorifolia*. It has the formula $C_{10}H_{12}O_2$; semicartazone m.p. 216°; phenylhydrazones m.p. 85°. A second ketone, whose semicartazone melts at 188° is present in the same oil. The oil from *Eucalyptus polytrachea* also contains keto-phenols.

Derris Extract Substance

In 1936, Buckley ("Journal of the Society of Chemical Industry," 1936, 55, 285T) isolated from derris extract a substance melting at 183° C. which was considered later by Cahn, Phipers and Boam ("Journal of the Chemical Society," 1938, 513) unlikely to be an individual chemical substance. Boam and Cahn have recently re-examined this substance ("Journal of the Chemical Society," 1938, 1819) and state that it is substantially homogeneous and is different from the other substances reported as constituents of derris. As a result of their chemical investigation the authors regard the compound as having the following structure:—



It appears highly improbable that the substance as such occurs in derris and the opinion is held that it is formed from deguelin by the action of the alkali utilised in Buckley's method of extraction.

By Howard Bayles

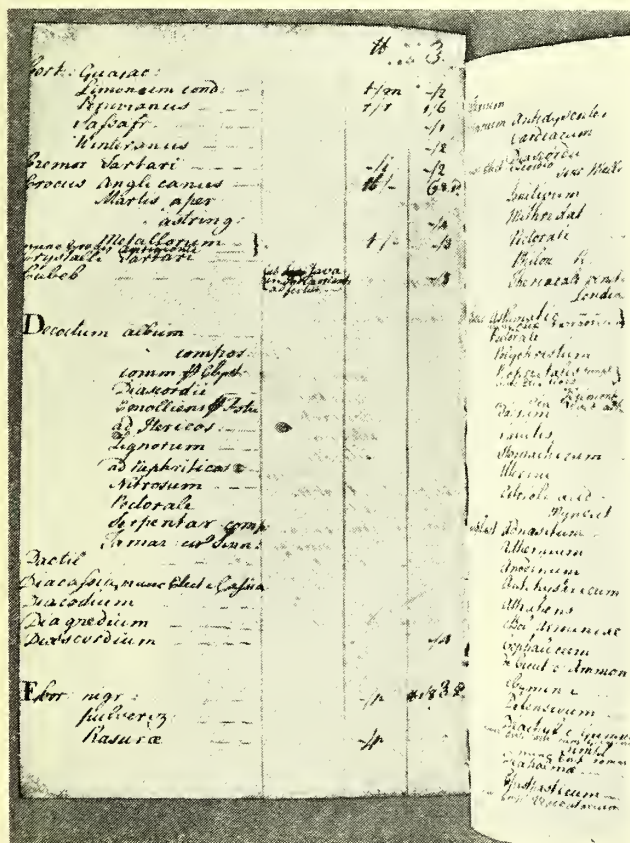
In a small volume at the British Museum labelled "Tracts: 1771-78," a distinguished occupant of which is Joseph Black's

The date of the list may be inferred, with a margin, from its contents. The Pulvis Antilyssus that was introduced, at the instance of Richard Mead, into the Pharmacopœia Londinensis, 1721, is entered, though no price is filled in. On the other hand, the new preparations of the P.L., 1788, seem to be almost unknown to the compiler; and the fact that one or two common drugs, such as calumba, are found does not invalidate this conclusion. Some, but not all, of the novelties of the P.L., 1746, are present, leading to the inference that the list was in use about that time, though it may have been begun earlier. The ounce prices of the right-hand pages have for the most part been trimmed away; but a few of those on the left-hand pages may be mentioned. Mace is 1s. 4d. per oz.; manna 8d. and 6d. per oz.; oil of clove 9d. per drachm; oleum lini "sine Igne" (i.e. cold drawn), 2d. per oz., white pepper 4d. per oz.; "oriental" rhubarb root (the only kind priced out) 6d. per drachm; Venice turpentine 2d. per oz. The few remarks written in the appropriate column relate usually to derivations of words or sources of supply.

Casson, Herbert, N. *The Casson Course of Retail Selling* 8 in. x 5 1/4 in. 10s. 6d. The Efficiency Magazine, Kent House, 87 Regent Street, London, S.W.1. [This course condenses the whole art of selling in a series of six paper-bound booklets of 30-32 pages each. The booklets may be said to present a number of the aphorisms of Mr. Casson, formulated as a result of his long and unique experience in the business of salesmanship. The title of each book is a key to the contents. Pharmacists of all ranks will find this course of particular value in improving the business side of their calling.]

Kay, Lillian A., B.Pharm., Ph.C. *The Microscopical Study of Drugs*. 8½ in. × 5½ in. Pp. 228. Illustrated. 10s. 6d. Baillière, Tindall & Cox, 7 and 8 Henrietta Street, London, W.C.2. [This book is intended for the use of students working towards the Pharmaceutical Chemist Qualifying Examination, the Bachelor of Pharmacy Examination, London, and includes the microscopical work required for the Chemist and Druggist Qualifying Examination. The schedules of work are to be commended for their simple, yet direct instructions, and those, together with the excellent illustrations, should be especially helpful to the student working independently.]

Lewin, Louis. *Drugs, Their Use and Abuse.* 8½ in. by 5¼ in. Pp. 335. 7s. 6d. Kegan Paul, Trench, Trubner & Co., Ltd., Broadway House, Carter Lane, E.C.4. [Translated from the second German edition by P. H. A. Wirth, this publication was formerly issued under the title *Phantastica*. The author has not only set forth the results of his pharmacological theories but has endeavoured to enlighten those who wish to clarify the surging conflict of public opinion regarding drugs and the drug habit. He traces the use of drugs from the earliest times, and says "From the first beginning of our knowledge of man we find him consuming substances of no nutritive value, but taken for the sole purpose of producing for a certain time a feeling of contentment, ease and comfort." He outlines the motives for the uses of narcotic and stimulating drugs which he considers are of greater interest than the facts concerning them, and discusses the importance of mental constitution in relation to external stimuli. In the chapter on narcotic substances the mode of action of these drugs is studied and a classification of them is given. Much space is devoted to a consideration of opium and coca and their alkaloids and derivatives of morphine. Other chapters deal with hallucinating substances, including Indian hemp and solanaceous drugs; inebriantia, which include alcohol and general anæsthetics; hypnotics and excitants. Into the last category falls tobacco, of which an exhaustive survey is given including its history, uses, good and evil effects and its substitutes. The contents of the book will provide a starting point from which original research in various departments of science may be pursued.]



PAGE FROM MS. PRICE BOOK

"Experiments upon Magnesia Alba, Quick-Lime, and other Alcaline Substances," there is a literary stowaway in the form of several MS. leaves. In addition to some folios containing derivations of medical words (with the Greek accents carefully filled in) and a few "oddments," the manuscript comprises thirty pages of names of drugs arranged alphabetically in left-hand columns, with three columns on their right allotted respectively to remarks, prices per lb., and prices per oz. The pages are headed "Catalogus Medicamentorum." Although trimming has taken place, presumably in binding, the page reproduced here is sufficiently complete for scrutiny. The size of each page is approximately 6½ in. by 3½ in. With a little ingenuity it would be possible to work out the price code used. The pound prices are less numerous than the ounce prices, and probably indicate cost, while the ounce prices are for guidance in retailing.

Palmarosa Oils

THE following is a translation of a report on Indian and Java palmarosa oils, by the Laboratory for Chemical Research, Buitenzorg, and published by the Trade Museum Department of the Colonial Institute, Amsterdam.

Palmarosa oil is obtained by distillation of *Andropogon Martini* Roxb. var. *Motia* (syn. *Cymbopogon Martini* Stapf. var. *Motia*) and consists in the main of geraniol, free and bound with acetic acid and capronic acid; this oil further contains dipentene and traces of methylheptenon. There is no information in literature regarding the content of aldehydes, although this might be of some importance; we ourselves found up to 11 per cent. (computed as $C_{10}H_{18}O$). The principal producer of palmarosa oil is British India, but palmarosa oil from Java is also on the world market.

WORLD EXPORT OF PALMAROSA OIL IN KG.

	British India	Dutch Indies
1930	38,099	503
1931	22,629	529
1932	39,235	49
1933	33,422	562
1934	40,938	55
1935	40,460	—
1936	41,478	411
1937	—	2,755

For 1935 no figures are given, but the production was greatly reduced on account of the small demand, which was due to the unsatisfactory odour. This occurrence of an inferior odour is wrongly attributed solely to the Java oil, since it has been found that in the case of the oil from British India the odour from the cultivated grass may not be as good as in the wild grass. Through the intermediary of the Trade Museum Department of the Colonial Institute at Amsterdam we obtained a sample of oil from British India, while we also had at our disposal several samples of Java oil from different sources. We ourselves distilled grass from a plantation of the Agricultural Institute at Buitenzorg. In the following table the properties of the different samples are compiled, and in the last column the permissible limits are given. The odour of the Java oil E. (i.e., the oil we ourselves distilled with cohobation [re-distillation]) was judged by an expert to be the best, thereafter came the oil from British India; Java oil P. was somewhat sharp and Java oil T. much too sharp. In order to determine the nature of aldehydes or aldehyde compounds, the original oil or its volatile parts, obtained by distillation *in vacuo*, were analysed by the usual methods. In this way, in the British India oil an aldehyde was isolated by means of sodium sulphite in neutral condition, of which the carbazone, after four re-crystallisations from diluted methyl alcohol melted at 160°C . and gave no reduction with the semi-carbazone of pure citral with a melting point of 163°C .

CONSTANTS OF SAMPLES UNDER EXAMINATION

	Brit. Ind. Oil	Java Oil P.	Java Oil T.	Java Oil E. (our pre- paration)	Limits
Specific gravity $15^{\circ}/15^{\circ}$...	0.8912	0.8903	0.8868	0.8933	0.886-0.899
Optical rotation ...	+ 0° 2'	+ 0° 16'	- 0° 6'	- 0° 22'	- 3° 10' to + 5°
Refractive index 20° ...	1.4759	1.4725	1.4737	1.4743	1.472-1.478
Acid Number ...	—	0.6	1.0	1.7	0-3
Ester Number ...	22.1	40.3	20.4	42.0	12-50
Total geraniol ...	92.5%	92.3%	91.4%	93.5%	78-94%
Aldehydes as $C_{10}H_{18}O$ (hydroxylamine method) ...	4.9%	0.7%	9.3%	0.9%	—
Solubility in 70% alcohol ...	1: 1-10	1: 1½-10	1: 1½-10	1: 1½-10	—

During oxidation of the aldehyde mixture with potassium permanganate in soda-alkaline condition the typical odour of methyl heptenon occurred; its quantity, however, in neutral extraction was too small for a derivate to be made. Likewise acid extraction furnished only traces of a fatty acid which had a valerian-like odour. Oxidation of the aldehyde mixture with silver oxide was more successful, as we were able to prove formic acid with cerium nitrate in the acid mixture resulting therefrom, while the characteristic crystals of cerous formate appeared. Also with cupri-acetate a crystallised product was obtained, which suggests cupri-valerate; as, however, this

reaction is not as specific, this could not be determined with certainty. The aldehyde compound of the British Indian oil therefore consists of citral, traces of formaldehyde, and probably isovaler aldehyde. Of the low-boiling components of the aldehyde-free oils we distilled a fluid substance which, after distillation over sodium *in vacuo* at 18 mm. had a boiling point of 80°C ., and upon closer examination appeared

to be a terpene. It was inactive, $n_D^{26} = 1.4729$, $d_4^{27.05} = 0.799$ and yielded a tetra bromide which melted at 123°C . These properties agree with those of dipentene. The Java oil sample P., treated in the same manner as above, also appeared to contain the aldehyde citral and a minute quantity of the "fatty aldehyde mixture" from the British Indian oil. The quantity of low-boiling components was smaller in this oil, but it also contained the terpene dipentene which, after distillation with sodium *in vacuo* at 18 mm., had a boiling point of 81°C .; it was inactive, $d_4^{27.05} = 0.819$, $n_D^{26} = 1.4716$, melting

point of the tetra bromide 120°C . In the Java sample T. we could not prove any citral, but some citronellal, the semi-carbazone of which had a melting point of 81°C . and gave no condensation with authentic citronellal semi-carbazone with a melting point of 83°C .; traces only of fatty aldehydes were present, while the terpene rotated anti-clockwise and yielded no crystallised tetra bromide. The properties after distillation *in vacuo* over sodium were as follows: Boiling point

$\pm 170^{\circ}\text{C}$., $d_4^{27.05} = 0.814$, $n_D^{26} = 1.4719$. Presumably we have here a mixture of dipentene and l-limonene, which would explain the reduced crystallising capacity of the tetra bromide.

Java palmarosa oil does not differ appreciably from that of the British India oil. Samples of Java oil from various sources and one of British India oil were examined in order to discover the cause of the difference in odour which may occur between these types. Since the odour of an oil is probably strongly influenced by aldehydes and other volatile components, special attention was paid to these components. Both types appear to contain a mixture of aldehydes, consisting of citral, formaldehyde and isovaler aldehyde, while in one of the Java oils citronellal was also proved.

Colonial Institute Report

At the beginning of 1937 the Trade Museum Department of the Colonial Institute received a complaint from a buyer in respect of the Java palmarosa oil supplied to him. The complaint concerned the odour of the oil, which, presuming the presence of citronellal, should remind one of citronella oil. In examining a sample of this oil, the physical properties, the solubility in 70 per cent. alcohol, and the geraniol content, appeared to be quite normal for palmarosa oil. An examination according to the usual method for determining citronellal in Java citronella oil (cf. Chem. Wbl. 32,405 (1935)) disclosed an aldehyde content (computed as citronellal $C_{10}H_{18}O$) of 8.0 per cent. That we were here actually dealing with citronellal was, however, by no means proved. Subsequently many more samples of palmarosa oil, derived from Java as well as from the principal country of production, British India, were examined in the same manner at the laboratory of the Trade Museum Department. All of them showed normal physical properties and favourable geraniol contents (82-94 per cent.). In eleven samples of Java palmarosa oil the aldehyde content (computed as $C_{10}H_{18}O$) averaged 7.0 per cent. (maximum 10.2 per cent., minimum 1.3 per cent.); in eight British Indian samples the average was 6.7 per cent. (maximum 9.4 per cent., minimum 5.1 per cent.). Also in that respect there is no real difference between the palmarosa oils of both production fields. British India palmarosa oil is a commercialised product, prepared and traded on a fairly large scale (20 to 40 tons p.a.), and purchasers have been familiar with it for many years. This cannot be said of the Java palmarosa oil, of which, at the utmost, a few hundred kilogrammes per annum reach the world market, though in 1937 there was a much larger quantity available, viz., 2,755 kg.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, December 29

THE year closes on the usual quiet tone, with business at a minimum. The markets as a whole continue fully steady, and it is anticipated that any alterations in prices that may take place early in the New Year will be to higher levels. On p. 712 of this issue we briefly review some of the chief market movements of the past twelve months.

Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	December 22	December 29
Amsterdam ...	Fls. to £	12·107	8·57	8·58
Berlin ...	Mks. to £	20·43	11·62	11·63
Brussels ...	Belgas to £	nominal	27·65	27·67
Copenhagen ...	Kr. to £	18·159	22·40	22·40
Lisbon ...	Esc. to £	110	110	110
Madrid ...	Ptas. to £	25·24½	nominal	nominal
Milan ...	Lire to £	92·46	88½	88½
Montreal ...	Dols. to £	4·86½	4·70	4·71
New York ...	Dols. to £	nominal	4·65½	4·66½
Oslo ...	Kr. to £	18·159	19·90	19·90
Paris ...	Fr. to £	124·21	177½	177½
Prague ...	Kr. to £	164·25	135½	136
Stockholm ...	Kr. to £	18·150	19·40	19·40
Warsaw ...	Zloty to £	43·38	24½	24½
Zurich ...	Fr. to £	25·2115	20·62	20·67

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

DURING the few days of business of the past week business has been negligible.

ACETANILIDE.—Steady, business quiet: B.P. crystals and powder quoted at 1s. 7d. to 1s. 10½d. per lb., as to quantity.

AMIDOPYRINE.—Dealers' quotations continue keen: crystals, two cwt., 9s. 4d.; one cwt., 9s. 8d.; less than one cwt., 10s. per lb., with powder 2½d. per lb. extra.

AMMONIUM ICHTHIOSULPHONATE.—Scale of prices is unchanged: one cwt., 1s. 6½d. in 14-lb. tins; 1s. 8d. in 1-lb. tins; 1s. 10d. in 8-oz. tins; and 2s. 1d. per lb. in 4-oz. tins.

ASPIRIN.—Makers' scales of prices have been reduced by 4d. per lb. The new prices, which came into force on December 12, are:—

In containers of	1 lb.	2 lb.	4 lb.	7 lb.	14 lb.	28 lb.
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
1 lb. and under 4 lb. ...	3 3	3 1½	—	—	—	—
4 lb. and under 7 lb. ...	3 2	3 0½	3 0½	—	—	—
7 lb. and under 14 lb. ...	3 1	2 11½	2 11½	2 10½	—	—
14 lb. and under 28 lb. ...	3 0	2 10½	2 10½	2 9½	2 9½	—
28 lb. and under 1 cwt. ...	2 11	2 9½	2 9½	2 8½	2 8½	2 8
Not less than 1 cwt. ...	2 7½	2 6	2 5½	2 5½	2 5	2 4½
Not less than 5 cwt. ...	2 7	2 5½	2 5	2 4½	2 4½	2 4
Not less than 10 cwt. ...	2 6	2 4½	2 4½	2 3½	2 3½	2 3

The quotations for aspirin, powder and tablets, are subject to the following conditions:—Buyers not to resell any quantity at prices or terms below the scale for such quantity current at the time the resale is made, and, if he converts the aspirin into tablets, not to sell any quantity of tablets at prices or terms below the scale for such quantity current at the time when he sells the tablets.

ASPIRIN (TABLETS).—The agreed scale of prices for bulk quantities was reduced as from December 12 as follows: Under 5,000, 2s. 10d. per 1,000 tablets; 5,000, 2s. 8d.; 10,000, 2s. 7d.; 25,000, 2s. 5d.; 50,000, 2s. 4d.; 100,000, 2s. 3d.; 250,000, 2s. 2½d.; 500,000, 2s. 2d.; 1,000,000, 2s. 1d. per 1,000 tablets. Wholesale distributors' prices for small quantities would be at higher figures.

BARBITONE.—Dull and unsteady: spot, two cwt., 8s. 11d.; 56 lb., 9s. 2d.; less than 56 lb., 9s. 5d. per lb.

BENZOIC ACID (B.P.).—Quoted unchanged, inquiry moderate: five cwt., 1s. 7½d.; one cwt., 1s. 8d.; smaller parcels, from 1s. 9d. to 2s. 2d. per lb., ex store, as to quantity.

BROMIDES.—Makers' scales of prices steady. POTASSIUM, B.P., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., 1s. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per lb. net.

Resale clause applies. 28-lb. parcels and one-cwt. cases free. Smaller quantities than 28 lb. at higher prices. Export quotations are maintained as follows: POTASSIUM, B.P., five cwt., 1s. 4d.; one cwt., 1s. 4½d. SODIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5½d. AMMONIUM, B.P., five cwt., 1s. 6½d.; one cwt., 1s. 7d. per lb., f.o.b.

BUTYL CHLORAL HYDRATE.—Market remains quiet: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—The new scales of prices for Continental materials continue steady, as follows:—PURE: bricks, less than 56 lb., 9s. 9½d.; 56 lb., 9s. 7½d.; one cwt., 9s. 5½d. per lb. Powder, less than 56 lb., 10s. 1d.; 56 lb., 9s. 11d.; one cwt., 9s. 9d. per lb. Anhydrous powder, less than 56 lb., 10s. 6d.; 56 lb., 10s. 4d.; one cwt., 10s. 2d. per lb. CITRATE: less than 56 lb., 6s. 6½d.; 56 lb., 6s. 5½d.; one cwt., 6s. 4½d. per lb. Delivered United Kingdom, duty paid. Cases and 5-lb. tins free.

CREAM OF TARTAR.—Remains quiet: British material, 99 to 100 per cent., 92s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

CREOSOTE (B.P.).—Market is dull: bulk quantities, in 25-kilo demijohns, 1s. 6d.; small parcels, 1s. 7½d. up to 2s. per lb., ex store.

EPHEDRINE.—Quotations for the chief salt are steadily maintained: Hydrochloride, B.P., quoted at about 6s. per oz. for minimum 1,000-oz. lots; small quantities, up to 7s. Pure alkaloid is quoted from 7s. 9d. to 8s. 3d. per oz., as to quantity.

GALLIC ACID.—Inquiry is slow: spot, one cwt., 3s.; 56 lb., 3s. 1d.; smaller parcels, up to 3s. 6d. per lb.

IODIDES.—Makers' prices for salts unchanged. POTASSIUM, B.P.—Not less than 1 cwt., 5s. 3d.; not less than 28 lb., 5s. 6d.; not less than 14 lb., 5s. 9d.; not less than 7 lb., 6s. 3d.; not less than 4 lb., 6s. 9d.; smaller quantities, 7s. 3d. per lb. SODIUM, B.P.—Not less than 7 lb., 7s. 4d.; not less than 4 lb., 8s.; smaller quantities, 8s. 10d. per lb. IODINE, B.P., RESUBLIMED.—Not less than 1 cwt., 5s. 9d.; not less than 28 lb., 6s.; not less than 14 lb., 6s. 3d.; not less than 7 lb., 6s. 9d.; not less than 4 lb., 7s. 5d.; smaller quantities, 8s. 2d. per lb.

IODIFORM, B.P., CRYST., PRECIP. OR POWDER.—Not less than 28 lb., 8s. 3d.; not less than 14 lb., 8s. 7d.; not less than 7 lb., 9s. 3d.; not less than 4 lb., 10s. 1d.; smaller quantities, 10s. 11d. per lb. Contracts for 1 cwt. and upwards (assorted if required), with fall clause, for delivery as required during four months, 28-lb. tins and 1-cwt. cases free. All bottles are charged, but will be credited in full if returned carriage paid, in good condition, within three months. Carriage paid on any quantity. It is a condition of sale that buyers undertake not to resell any quantity of the above products at prices below the scale for any such quantity current at the time the sale is made.

PHENACETIN.—Steady, limited business: crystals or powder, bulk quantities, from 2s. 6d.; smaller parcels, 2s. 7d. up to 3s. per lb., as to quantity.

PHENAZONE.—Quiet, with quotations competitive: crystals, five cwt., 6s. 9½d.; two cwt., 7s.; one cwt., 7s. 3d.; and less, up to 7s. 6d. per lb., with powder 2½d. per lb. extra.

QUININE SALTS.—Convention prices continue steady at the recent advance: sulphate, 2s. 3d.; bisulphate, 2s. 3d.; ethyl carbonate, 2s. 11d.; salicylate, 2s. 11½d.; hydrochloride, 2s. 10d.; dihydrochloride, 3s. 1½d.; hydrobromide, 2s. 10d.; dihydrobromide, 3s. 1½d.; valerianate, 3s. 9½d.; phosphate, 3s. 5½d.; hydrophosphate, 4s. 1½d.; alkaloid, 3s. 1½d. per oz., 100-oz. tins free, carriage paid on bulk quantities.

SODIUM BENZOATE (B.P.).—Fair inquiry, quoted steady: five cwt., 1s. 3½d.; one cwt., 1s. 4d.; smaller parcels, from 1s. 5d. to 2s. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—Not much inquiry: spot, one cwt., 11s.; 28 lb., 11s. 3d.; 14 lb., 11s. 6d.; 7 lb., 11s. 9d.; smaller parcels, up to 12s. 3d. per lb.

SODIUM SALICYLATE (B.P.).—Moderate business, makers' prices are unchanged: home trade, crystals or powder, five cwt., 1s. 5½d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10½d.; 7 lb., 1s. 11½d.; 1 lb., 2s. 4d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Market continues unchanged: British makers quote at 1s. 1½d. per lb., less 5 per cent. discount, dealers offering foreign materials at competitive prices.

TERPINEOL.—Convention prices have been reduced, as follows: ten cwt., 1s. 2d.; five cwt., 1s. 2½d.; one cwt., 1s. 3d.; smaller quantities, up to 1s. 6d. per lb.

THEOBROMINE.—The new scales of prices for Continental material continue steady, as follows: Pure, less than 56 lb., 8s. 8½d.; 56 lb., 8s. 6½d.; one cwt., 8s. 4½d. per lb. Soda sal., less than 56 lb., 6s. 10d.; 56 lb., 6s. 9d.; one cwt., 6s. 8d. per lb., delivered United Kingdom, duty paid. Cases and 5-lb. tins free. Smaller packings extra.

Crude Drugs, etc.

AGAR.—Spot market continues strong. Shipment prices are very firm: spot, Kobe, No. 1, 3s. 7d.; No. 2, 3s. 5d.; Yokohama, No. 1, 3s. 4½d. per lb.; shipment, new crop, January-February, Kobe, No. 1, 3s. 5d. to 3s. 6d., as to shipper; February-March, Kobe, No. 2, up to 3s. 3d.; Yokohama, No. 1, 3s. 1d. per lb., c.i.f.

ALGES.—Spot quotations for Curaçao continue firm: Cape, spot, in boxes, 54s.; shipment, 46s. per cwt., c.i.f. Curaçao, spot, 175s. for coarse up to 190s. for livery. Shipment, possibly a re-seller, at about 170s., c.i.f. Nothing from the source.

CAMPHOR.—Market steady, quiet; values steady: Japanese monopoly BB brand, £7 10s. per 100 lb.; Japanese, natural, spot, tablets, 2s. 6d.; powder, 2s. 3d.; slabs, 2s. 2½d. per lb., ex store; shipment, tablets, 2s. 2d.; powder, 1s. 10½d.; slabs, 1s. 10½d. per lb., c.i.f.; English refined flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ¾ oz. and 1 oz., 3s. 6d.

ERGOT.—The steadier tone is maintained: Spanish, old crop, 4s. 1d.; Portuguese, spot, 4s. 3d. to 4s. 4½d.; shipment, about 3s. 10d., c.i.f. Polish, spot, about 3s. 8d. per lb., as to seller and quantity. No Russian available.

GENTIAN.—A small spot demand: good clean French root about 32s. 6d. and Continental about 30s. per cwt., ex store.

GUM ACACIA.—The shipment market continues steady at the recent improvement: Kordofan, cleaned sorts, spot, 39s. 6d.; shipment, 37s. 6d. per cwt., c.i.f.

HENNA.—Very steady on a limited supply: Egyptian, brown, 30s.; green, 35s. per cwt., c.i.f.

HONEY.—Business has quietened down, but the market is steady and by no means overloaded, as was the case a year ago: Jamaican, dark, manufacturing, 30s. up to 40s. for pale set. Canadian, new crop, steady at 44s. to 46s., as to quality. Californian, white clover, 47s. 6d. per cwt., duty paid. Small lots of all descriptions at higher prices.

HYDRASTIS.—Spot values steady: U.S.P. spot, 13s. to 13s. 3d.; shipment, about 12s. 9d., c.i.f. Limited quantity of root testing 3-4 alkaloids, 14s. 3d. per lb.

IPECACUANA.—Quiet and some holders are slightly discounting their quotations: Matto Grosso, B.P., spot, 7s.; shipment, 6s. 9d. per lb., c.i.f.

MERCURY.—No further change in quotations, with shipment at 70 dollars per bottle, f.o.b. Continent; spot, £15 4s. per bottle, ex store.

OPUM.—Market steady: Turkish, 13 per cent., 1s. 2d.; Iranian, 12 per cent., 1s. 1d.; Bulgarian, original cases of 170 lb., 12½ per cent., 1s. 2d.; Afghanistan, 14 per cent., 1s. 1d., all per unit, landed and duty paid.

PIMENTO.—Fully steady, moderate business: spot, 8d. per lb.; shipment, January-February, 68s. per cwt., c.i.f.

RHUBARB.—In rough round all the cheaper lots sold: spot, rough round, up to 2s. 2d., as to seller and quantity. Shensi, 4s. 9d. to 5s. per lb., ex store. A parcel of rough round near afloat will be offered from about 1s. 10½d., landed, for medium quality.

SEEDS.—ANISE.—Spot, duty paid, Spanish, 55s.; Bulgarian, 42s. 6d.; Russian, 42s. CARAWAY.—Spot, Dutch, 32s. 6d., duty paid, 27s. 9d. quoted f.o.b. Holland. CANARY.—Spot, Mazagan, 16s.; Morocco, 15s.; Turkish, 13s.; Plate, 13s. 6d.; Spanish, 25s. to 37s.; the above prices are duty paid. CORIANDER.—Market remains firm. Morocco on spot is quoted at 17s. 6d., duty paid, and 16s. in bond; for shipment again dearer at 17s. 9d., c.i.f. CUMIN.—Spot, Malta, 47s. 6d., duty free; Morocco, 45s., duty paid, and for shipment, 44s., c.i.f. FENNEL.—Spot, Indian, 22s. 6d. FENUGREEK.—Morocco, on spot, offered at 13s., duty paid. MUSTARD.—English, 21s. to 29s. 6d., according to quality.

SENEGAL.—Continues very firm: spot, 2s. 9d. to 2s. 10d.; shipment, South American, 2s. 8d., c.i.f., on which 10 per cent. duty would be payable.

SHELLAC.—Market is steady: spot, standard TN orange, 39s. to 42s.; fine orange, 52s. 6d. to 80s.; pure button, 47s. 6d. to 50s. per cwt. For delivery, TN, January, 38s. 6d.; March, 40s.; May, 41s. For arrival, TN, January-February, 38s. 6d. per cwt., c.i.f.

TRAGACANTH.—Business has been quiet, with values nominally unchanged: finest selected white ribbon, £65; No. 1, white, £57 10s. to £60; No. 2, white, £50 to £54; No. 3, white, £35 to £45; amber leaf, £32; cleaned amber sorts, £16; brown to amber leaf, £11 10s.; red leaf, £9 to £10; hogg, £6 to £7 per cwt., ex store.

TURMERIC.—Fully steady at former values. No "polished" spice on spot; rough-coated held for 29s. 6d.; shipment, "polished," 28s. 6d. per cwt., c.i.f.

WAXES.—BEES'.—These markets have shown little life this week: all quotations are about unchanged: good quality waxes, in bond, 92s. 6d.; duty paid, 98s. to 100s. per cwt. Benguella, 86s. 6d., c.i.f.; in bond, 90s. Dar-es-Salaam, 97s., c.i.f., and Conakry, 86s. per cwt., c.i.f. CARNAUBA.—Fatty grey, spot, 150s.; afloat, 144s.; shipment, December-January, 140s., c.i.f. Chalky grey, spot, 150s.; shipment, December-January, 137s. 6d., c.i.f. Primeira, spot, good quality, 192s. 6d.; shipment, December-January, 180s.; Mediana, spot, 185s.; shipment, 177s. 6d. per cwt., c.i.f.

Essential and Expressed Oils, etc.

ALMOND.—Remains quiet, keen quotations: English-made, cwt. lots, 2s. 5d.; smaller parcels, up to 3s. per lb.; foreign, cwt. lots, 2s. 6d.; smaller parcels, up to 3s. per lb. French bitter, 6s. to 6s. 1½d. per lb.

ANISE (STAR).—Business remains slack and spot holders' ideas of values are rather easier: spot, leads, nominal; tins, 3s. 4½d. to 3s. 5d., less 2½ per cent.; drums, 3s. 3d. per lb., net, ex store.

AVOCADO PEAR.—Market is slack: spot, 46s. to 52s. 6d. per gallon, as to quantity.

BAY.—Inquiry is small: cases, 4s. 3d. to 5s. 3d. per lb., as to quality.

BERGAMOT.—We are advised that the Consortium shipment price for new crop will be at the former figure of 15s. per lb., c.i.f. The crop will be about three weeks late and it is estimated the quantity will be well below average. First shipments will be ready about the end of January.

CAJUPUT.—Small spot business: B.P., 1s. 11d. to 2s. 4d. per lb., as to quantity, spot.

CAMPHOR.—Market very firm with hardly any supplies available here. No shipment offers. No Chinese oil: Japanese, white, dearer from 142s. 6d. per cwt., ex store, in drums.

CANANGA.—Market is slack: spot, 4s. 9d. to 4s. 10½d. per lb., according to quantity and packing; shipment is dearer at 4s. 3d. per lb., c.i.f.

CARAWAY.—Continues steady, business slow: Dutch rectified, 7s. 3d. to 7s. 9d.; crude, 6s. 9d. to 7s. 3d. per lb., as to quantity, landed and duty paid. Some shipment offers of Russian are reported.

CEDARWOOD.—Values are steady, market dull: African, in drums, 11½d.; smaller packages, up to 1s. 4d. per lb. American, in drums, 1s.; smaller packages, up to 1s. 4d. per lb.

CINNAMON LEAF.—Average small spot business reported: the Ceylon oil, re-packed in limited quantities, about 2s. 6d. to 2s. 7½d. per lb., as to quantity.

EUCALYPTUS.—Shipment quotations from Australia for the higher grades of oil are dearer: Australian, 70 to 75 per cent., tins, 1s. 2½d. to 1s. 3½d.; drums, 1s. 2d. to 1s. 2½d.; 80 to 85 per cent., drums, 1s. 6d. per lb., ex store, with higher prices for small lots; shipment, 70 to 75 per cent., tins, 1s. 1½d.; drums, 1s. 0½d.; 80 to 85 per cent., 1s. 4½d. per lb., c.i.f.

GERANIUM.—Business quiet, values continue irregular as to quality of the oils: Bourbon, spot, 10s. to 10s. 3d.; shipment, about 10s., c.i.f. Algerian, spot, 11s. 6d. to 12s., shipment, 10s. 9d. per lb., c.i.f.

LEMON.—Shipment quotations for new crop oil continue in the region of 9s. 9d. to 10s. per lb., c.i.f., as to brand. Market quiet. Californian, distilled, 1 dollar 54 cents per lb.; Californian, cold-pressed, 9s. per lb., landed.

LEMONGRASS.—Practically no interest in the market: spot, 1s. 7½d. to 2s. per lb., as to quantity and packing; shipment, 1s. 4½d. per lb., c.i.f.

LIME.—Market quiet, quotations unsteady: West Indian distilled is nominal at 17s. 6d. per lb.

LINSEED.—Steady but quieter: raw oil, in small quantities, 25s. 6d. per cwt.; boiled oil, 28s. 6d. per cwt., ex works.

MANDARIN.—Steady but less inquiry on hand: new crop oil for shipment is quoted in the region of 14s. 6d. to 15s. 6d. per lb., c.i.f.; spot, 16s. to 17s. 6d. per lb., ex store.

NEROLI.—Spot business is quiet: quoted at 24s. to 27s. per oz., as to source, for small lots.

NUTMEG.—Average small spot business: Dutch and American, from 5s. 4½d. to 5s. 9d. per lb., as to quantity.

OLIVE.—Business on a very fair scale and prices are fully maintained: B.P., 1 per cent., 6s. to 6s. 1½d. per gallon, in drums. Edible quality, ten 1-gallon tins, in cases, 82s. 6d.; twenty ½-gallon tins, in cases, 85s. per case; drums, 6s. 3d. per gallon, ex store.

PALMAROSA.—Limited inquiry, quoted about unchanged: spot, about 8s. per lb. for bulk purchases; shipment is steady at 7s. 3d. per lb., c.i.f. Java oil is available at about 4s. 4½d. per lb., ex store.

PATCHOULI.—A competitive market, business small at the moment: Singapore, spot, 10s. 6d. to 10s. 9d.; Seychelles, spot, about 9s.; Java oil, about 9s. 4½d. per lb., ex store, for original packages.

SANDALWOOD.—Genuine East Indian Mysore, in one-case lots, steady at 20s. 6d. per lb. East India, produced outside the province of Mysore, 18s. 6d. to 19s. per lb., c.i.f., in bulk quantities. English-made West Indian, 7s. 3d. per lb. Australian, steady at 15s. 3d. per lb., for 7-lb. tins; one case at 14s. 9d. and five cases at 14s. 6d. per lb.

SASSAFRAS.—Dealers' quotations continue to vary as to quality of the oil: genuine natural oil of fine quality offered at 4s. to 4s. 3d. per lb., as to quantity.

VETIVER.—Rather unsteady on quotation: Bourbon about 15s. to 16s. 6d. per lb., and slightly less for drums, ex store.

WORMSEED.—Business of small account: values now steadier: U.S.P. oil, spot, 10s.; shipment, 9s. 8d. per lb., c.i.f.

Commercial Notes

Dominica Essential Oil Exports.—Shipments of essential oils in 1937 amounted to 30,647 lb., valued at \$62,000, compared with 32,280 lb., valued at \$73,000, in 1936, and 25,439 lb., valued at \$54,000, in 1935. The increased volume of exports is due chiefly to larger shipments of lime and bay oils.

French Indo-China Nux Vomica Exports.—The methods of harvesting practised by natives caused considerable damage to nux vomica plants in 1937, and resulted in a sharp decline in exports. Exports of nux vomica during the first half of 1938 aggregated 268 metric tons, against 723 tons in the corresponding months of 1937. Exports to the United States during these periods declined from 580 to 31 metric tons.

Formosa Derris Plantations.—The South Formosan Derris Co., Ltd., was recently established with paid-up capital of 100,000 yen. The company's plantation, located at Chosui, in Choshu Province, near Takao, covers an area of 460 acres. In December 1937 a total of 70 acres was planted with derris, while in June 1938 another section of 70 acres was planted. The remaining 320 acres are being prepared for future planting. Following experimental plantings made recently, it was estimated that output per acre would average about 1,450 lb. of dried root. It has also been ascertained that the use of fertilisers will raise this figure appreciably. According to the prospectus of the newly-organised company, the derris planted on the original area of 70 acres is growing very well. On June 30, sample roots were tested for rotenone content and averaged between 6 and 9 per cent. It is reported that at the end of 1938 the company will be able to supply about 100,000 lb. of derris root and in June 1939 it will be able to ship another lot of the same amount. After 1940, it is stated, the company may produce 667,000 lb. a year.

Chilean Quillaia Bark Standard.—Export standards adopted for quillaia bark by Decree No. 1,247 which was published in the Chilean Official Gazette are as follows: Standard quillaia bark shall be sound, dry, of characteristic colour (light cream colour on the inside and rose colour on the outside); taken from the tree in slabs of not less than 10 centimetres in width by 50 centimetres in length and 5 millimetres in thickness. A tolerance up to 5 per cent. in total defects and damages will be allowed, but not exceeding 1 per cent. in each defect. A maximum humidity of 10 per cent. will be allowed. Grade one bark shall be of the same colours as mentioned above, in minimum sizes of 10 centimetres in width by 30 centimetres in length and 3 millimetres in thickness. A tolerance up to 15 per cent. in total defects and damages will be allowed, but not exceeding 3 per cent. in each defect. A maximum humidity of 10 per cent. will be allowed. Grade two bark shall be of the same colours as in Superior Grade and Grade one, 7 centimetres in width by 30 centimetres in length and 2 millimetres in thickness, with a maximum humidity of 12 per cent. Quillaia bark for export shall be packed in bundles, pressed and wired, or in bulk wrapped in a serviceable grade of jute cloth. The bundles which are not wrapped in jute cloth must carry a label of wood, hide or celluloid at least 10 centimetres in length by 6 centimetres in width for marking purposes. Each package must carry the following marks or labels: Export Control Mark which shows: Product, grade and the word "Chile" within the silhouette of the Coat of Arms of Chile and the trade-mark of the exporter. The Export Control Service shall inspect quillaia bark by examining each bundle or bulk to determine whether they are properly packed and marked, and by subjecting samples taken therefrom to laboratory analyses.

Japanese Agar Industry.—Estimates place the production of agar in Japan during the year ended June 30, 1938, at around 2,740,000 lb., or 570,000 lb. less than during the preceding year. Because of favourable weather during the curing season, the year's output is reported to be of better quality than that of 1936-37. Stocks are reported low because of the small carry-over from last year. On account of stormy weather during the past summer, seaweed was damaged, and according to the trade the 1938-39 yield is expected to be 30 per cent. lower than in the past season. Exports of agar from Japan were valued at 6,446,360 yen in 1937-38, which compares with 5,757,511 yen during the preceding year, and 5,609,891 yen in 1935-36. The chief destinations were:—

Country	1936-1937	1937-1938
	Lb.	Lb.
China	110,800	80,400
Hong Kong	41,709	2,300
Straits Settlements	209,100	69,100
Netherlands Indies	325,200	162,500
Great Britain	342,500	403,600
France	529,300	425,400
Germany	447,500	511,700
United States	568,300	644,600
Australia	87,800	111,600
Others	697,800	893,400
	3,360,000	3,304,600

Indian Pharmaceutical Imports.—Imports during the past ten fiscal years (ending March 31), with chief sources, were as follows. These figures do not include proprietary articles:—

Year	U.K.	Germany	U.S.A.	France	Japan	Other Countries	Total
1927-28	8,422	4,471	2,023	670	2,249	2,090	19,828
1928-29	8,897	3,644	1,897	979	2,425	2,368	20,212
1929-30	9,529	4,060	2,346	1,318	2,692	2,677	22,625
1930-31	6,437	4,812	2,221	1,121	1,604	3,106	19,393
1931-32	6,667	4,276	1,955	867	1,757	3,586	19,111
1932-33	6,115	4,334	2,083	1,114	1,931	3,004	18,583
1933-34	7,068	4,278	2,192	990	1,931	2,879	19,342
1934-35	7,108	4,413	2,177	1,018	1,557	2,913	19,190
1935-36	7,479	5,406	2,583	1,163	1,918	2,565	21,116
1936-37	7,679	5,497	2,240	928	1,737	2,599	20,683

Values in '000 rupees.

Imports of proprietary articles for the past ten fiscal years (ending March 31), with chief sources, were as follows:—

Year	U.K.	Germany	U.S.A.	France	Other Countries	Total
1927-28 ...	1,357	702	367	178	320	2,926
1928-29 ...	2,312	544	599	363	443	4,283
1929-30 ...	2,428	741	626	503	555	4,856
1930-31 ...	1,838	786	690	456	517	4,290
1931-32 ...	2,207	828	764	468	345	4,614
1932-33 ...	1,512	715	542	588	410	3,768
1933-34 ...	1,635	597	373	188	303	3,097
1934-35 ...	1,964	708	651	372	228	3,926
1935-36 ...	2,607	1,590	1,256	692	272	6,420
1936-37 ...	2,941	1,771	1,173	545	345	6,776

Values in '000 rupees.

Japanese Pyrethrum Industry.—The 1938 pyrethrum crop in Japan has been reported at 10,800 long tons, which figure is practically identical with the volume reported for 1937. This large harvest was due principally to good weather prevailing during the harvest season. Actual acreage devoted to the cultivation of pyrethrum during 1938 was reported at 61,411, a decrease of 11.1 per cent. from 69,115 acres reported for 1937. The acreage in the Hokkaido District during 1938 was 39,531 (47,775 in 1937), and Shikoku District 5,929 (6,930), and the Honshu District 15,951 (14,410). The greatest area was reached in 1936 when 77,231 acres were devoted to the crop. The favourable prices obtained for pyrethrum during the early months of 1938 may tend to increase the 1939 acreage. The quality of the 1938 crop is said to be far superior to that of 1937 when rains occurred during the harvesting season. Stocks of pyrethrum on hand in Japan on August 31, 1938, approximated 12,000 long tons, representing all of the 1938 crop except about 800 tons which had been marketed and including 2,000 tons carried over from the previous year. A merchant in the trade has reported that the military forces in Manchuria and North China will absorb a substantial share of the pyrethrum production, but there are no official statistics showing the volume of this trade. The trade return for the first seven months of 1938 shows a rather sharp drop in exports as compared with the corresponding months of 1937. The following statistics, in pounds, do not include shipments to the military forces in Manchuria and North China which are understood to be important.

Month	1937		1938	
	United States	Total	United States	Total
January	891,200	1,012,500	386,500	519,400
February	1,473,200	1,569,600	1,127,500	1,211,800
March	683,100	814,400	688,400	779,500
April	446,800	548,400	141,000	212,500
May	1,022,200	1,214,400	44,700	100,000
June	260,300	347,200	112,000	158,300
July	1,275,400	1,447,200	1,051,800	1,090,700
Total	6,052,200	6,953,700	3,551,900	4,072,200

The total value for the first seven months of 1938 was 2,227,615 yen, a slight increase over the 2,220,513 yen reported for the corresponding months of 1937. In general it can be stated that the monthly average prices for the first eight months of 1938 were about 20 yen per 132.275 lb. higher than those reported for 1937. The low quotation for the early months of 1938 occurred in January, when prices were 60 yen per 132.275 lb., f.o.b., Kobe.

Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Disallowed Insurance Articles

SIR,—As a practising pharmacist I do not experience any difficulty in deciding whether an article prescribed on a National Health Insurance prescription will be allowed by the pricing office or not—reference your leader of December 24. I understand that I am entitled to dispense any article or substance which a doctor orders on a National Health Insurance prescription, and the question of whether the drug or article forms part of medical benefit is one which is decided by the Panel Committee or the Minister of Health. In the case of these bodies deciding that the prescription is not a drug or a prescribed appliance, then the doctor who ordered it is surcharged by the Insurance Committee. The pricing bureaux, I understand, price these articles and the chemist is paid for them; so far as the chemist is concerned, there is no question of any disallowance on a National Health Insurance prescription in England or Wales.—Yours faithfully,

PRACTISING PHARMACIST (28/12).

The C.F. Scheme and Retailers

SIR,—I agree with "Unqualified" (C. & D., December 10, p. 653) regarding Mr. Begg's letter. I started my apprenticeship on January 3, 1910, and on January 6, 1915, commenced my services in the Army (four and a half years overseas). On being discharged I returned to pharmacy and sat for the examinations twice, being "pipped" on both occasions. As my finances were low I was compelled to carry on as an unqualified man. My references show me to be an excellent all-round man. I may say that I have never been unemployed, and held my last post for over sixteen years, but was compelled to leave owing to the unfair treatment I received (too old at forty). The result was that I started in business on my own account. Regarding the C.F. scheme, I consider that we as drug stores are entitled to sell the goods included in the scheme. My son will qualify in the near future, and naturally C.F. goods will be conspicuous by their absence. It is particularly annoying to have the grocery department of the co-operative stores next door to me selling C.F. goods and giving dividend on them. These are supplied to them by their own pharmacy in the centre of the town. The C.F. scheme is restricting points of distribution, preventing service to the public, producing competitive lines and will eventually crumble and lose heavily.—Yours faithfully,

SOMME (15/12).

Spotlight on Pharmacy

SIR,—In the discussion on "Advertising for Pharmacy" held at Liverpool (C. & D., December 24, p. 680) one question raised was whether pharmacy was good enough to bear the spotlight of Press advertising. Pharmacy in itself is good enough undoubtedly to bear any spotlight, if looked at that side with which the majority of chemists are familiar, and which is about the only kind of pharmacy we have the opportunity to practise, namely, insurance dispensing. For twenty odd years during which it has been carried on, the work of the pharmacist has been practically one hundred per cent. efficient. Out of the millions of prescriptions dispensed, the number of errors or inaccuracies has been so small in proportion as to be almost non-existent; complaints by insured persons of inadequate service are equally rare; while deliberate substitution or default is unheard of. To advertise pharmacy effectively, the first thing to do is to prepare the ground; thus if the public generally could be brought to a realisation of the training and qualification of the pharmacist, and the responsibility incurred in dispensing poisons and potent drugs, there would be little difficulty in advertising pharmacy from the selling angle. The publicity scheme developed by the committee of the South-East London Chemists' Association has the merit of being novel, well thought out, and one which should be successful if supported to the full by all parties. The chief advantage of this scheme compared to other advertising methods which have been suggested for pharmacy is that each contributor stands to gain something through the help of the others.

Yours faithfully,

ADVERTISER (27/12).

Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

S. V. P. (25/11).—INDUSTRIAL SPIRIT FOR TINCTURES.—As tinct. ferri perchlor is an article capable of internal use as a medicine, such industrial methylated spirits could not be used in this preparation. Its manufacture would be allowed, however, if some ingredient were added to it such as 2 per cent. of boric acid rendering it unsuitable for internal human use

W. J. H. (9/12).—POULTRY FOOD.—The following is a representative formula for a poultry food, taken from "Pharmaceutical Formulas," Vol. II:—

Ground bones	4 oz.
Ferrous sulphate	1 oz.
Powdered capsicum	1 oz.
Powdered fenugreek	2 oz.
Powdered black pepper	1 oz.
Sodium sulphate	1 oz.
Silver sand	2 oz.
Ground dog biscuits	8 oz.

Your samples are probably based on a similar formula, possibly with the addition of some ground Indian corn and ground linseed cake.

J. W. B. (16/12).—COMPLEXION MILK.—The following formulas will probably be suitable for your purpose:—

Hydrous wool fat	5.0
Lanette wax	4.0
Industrial spirit	10.0
Glycerin	2.0
Rose water	30.0
Tincture of benzoin	0.5
Distilled water	100.0
Perfume	q.s.

Mix the wool fat and lanette wax with the spirit and glycerin sufficiently warmed. While liquefied, pour in the distilled and rose waters slightly warmed. Finally add the tincture of benzoin. Pour into a wide-mouthed bottle and shake.

C. A. T. (Belgium) (16/12).—CASEIN CEMENT.—The following formula is given in "Pharmaceutical Formulas," Vol. II:—

Casein	78 per cent.
Dry sodium carbonate	4.5 per cent.
Sodium fluoride	4.0 per cent.
Freshly slaked lime	12.5 per cent.
Sodium arsenate	1.0 per cent.

W. S. (23/12).—PETROL GAUGE.—The liquid generally used in the type of petrol gauge to which you refer is bromoform, coloured red with a scarlet aniline dye of the Sudan type.

Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," December 29, 1888

1888

The year just receding from us includes but little in its record likely to make it memorable in the annals of pharmacy. No legislative achievements, no *causes célèbres*, scarcely even any "scares" stand out as events in its history, and burning questions, if any have cropped up, have been either promptly extinguished or prudently postponed. Correspondents have persisted in assuring themselves and us that matters have been going from bad to worse with the trade, and that something must be done quickly by somebody if any wreckage of the old chemists and druggists' business is to be saved. And still chemists' and druggists' shops look as smart as ever, the annual consumption of physic increases at a greater rate than the population, wholesale houses dealing with druggists are more numerous and far more important than they used to be in the "good old times," staple drugs cost less and sell for much about the same as formerly, and in the total we do not doubt that more money is made in the drug business in modern days than in those times when competition was hardly known among respectable people. If the present or future condition of pharmacy in this country depends on the Act of Parliament which is so often set forth in our columns as simple justice, and by the provisions of which the handling of all drugs and medicines is to be rigorously confined to registered chemists and druggists, there is, we fear, but little ground for hopefulness.

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50's	10 $\frac{1}{2}$ d.	6/6	5/9	5/-
100's	1/3	10/6	9/-	7/-

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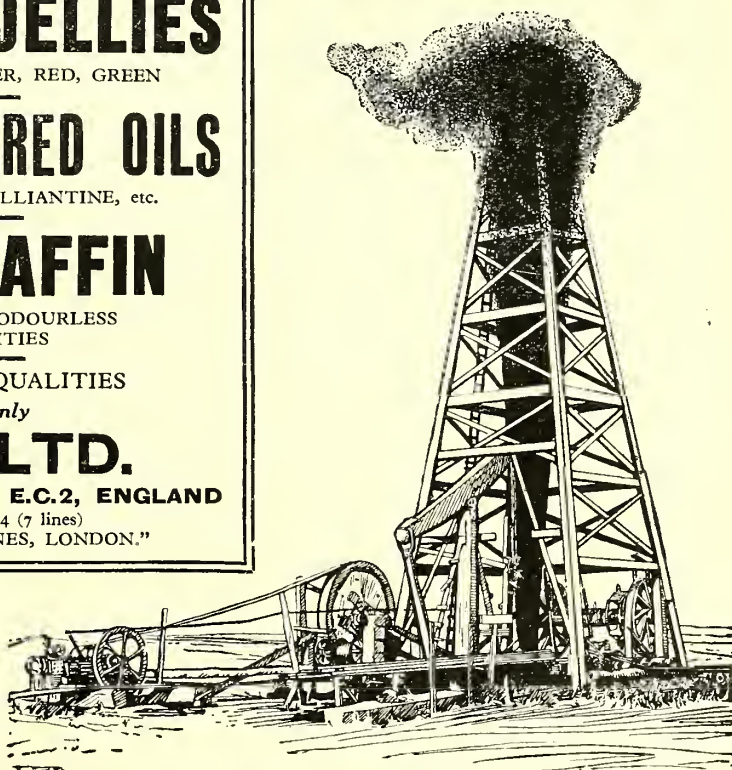
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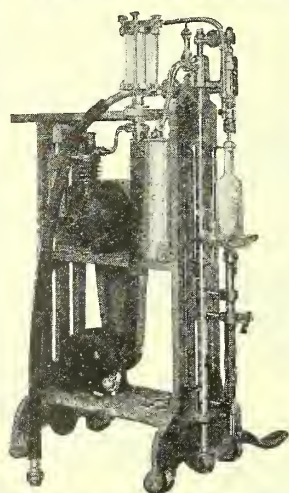


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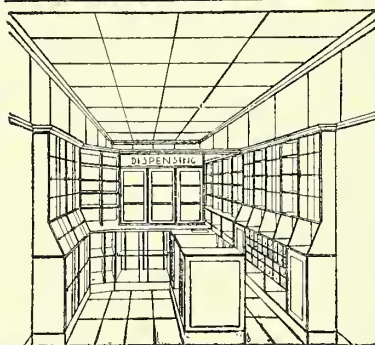
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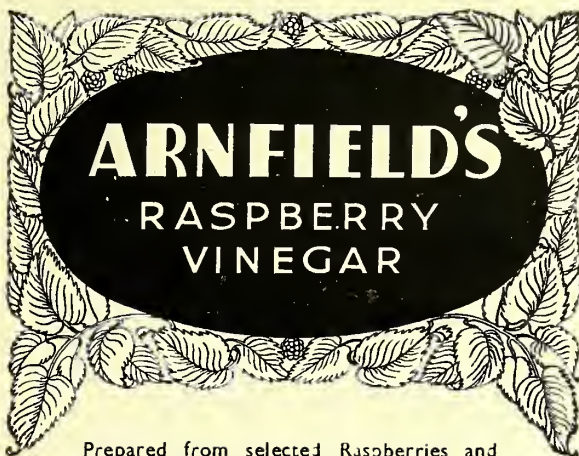
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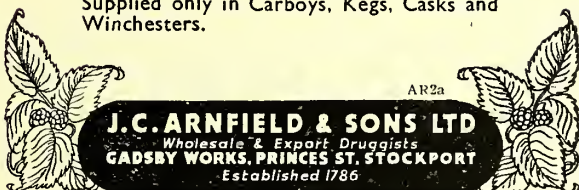
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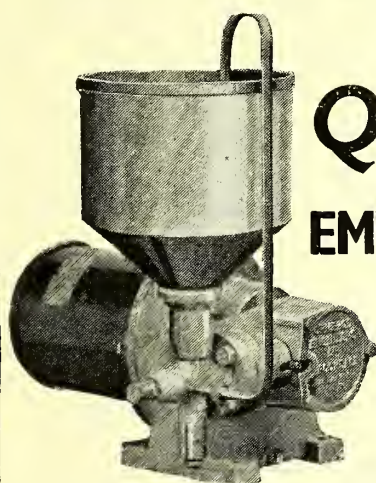
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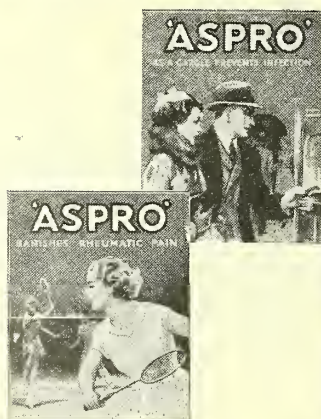
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This Supplement is inserted in every copy of The Chemist & Druggist

28, ESSEX STREET, LONDON, W.C.2

DECEMBER 31,
• 1938 •

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2.—**ISLINGTON (NEAR).**—Business and Branch situate in close proximity; total turnover between £2,300 and £2,400 per annum; gross profit exceeds £1,100; excellent Panel; net profit £400; inclusive purchase price for both businesses £1,000; the concerns can be bought together or separately.

3.—**STOCKWELL.**—Main road Business for immediate sale by trustee; turnover exceeds £1,200; gross profit over £500; handsomely fitted pharmacy, very well stocked; new lease will probably be granted to a responsible tenant; no reasonable offer refused.

4.—**PICCADILLY (NEAR).**—Good-class Business offering scope for increase; old established; returns average about £40 per week; stock worth £400; valuable lease; inclusive purchase price £900, or valuation terms entertained.

5.—**HAMMERSMITH.**—Middle- and Working-class Cash Retail Business with sub-Post Office attached; net profit over £300 per annum; long lease; inclusive purchase price required £650 or near.

6.—**HAMPSTEAD.**—High-class Business; net profit last year £236 under lady management; heavy stock; low rental; inclusive purchase price about £350.

7.—**KILBURN.**—Middle- and Working-class Cash Retail Business offering scope for increase; returns last year under management over £1,100; rent £100 per annum, sublets will amount to £130 per annum; price required for lease, goodwill and fixtures, £200, plus stock at valuation.

8.—**BEXLEY HEATH.**—General Retail Business; scope for Panel; takings over £1,400; gross profit £474; modern living accommodation; inclusive purchase price £675.

9.—**HIGH WYCOMBE.**—Family Retail Business; takings last year £1,162; net profit nearly £300; stock and fixtures £460; rent only £75 per annum; advantageous sublets; inclusive purchase price approximately £700 or valuation terms entertained.

10.—**STROUD GREEN.**—General Retail Business with excellent Panel; established 1870; turnover last year £1,619; net profit approaches £400 per annum; certified figures; heavy stock; excellent living accommodation; rent only £70 per annum; vendor buying another business; would accept valuation terms; total price about £750.

11.—**TOOTING.**—Excellent opportunity for young man; old-established business offering considerable scope; living accommodation; very low purchase price; full details on application.

12.—**LONDON, W.9.**—Main road Cash Retail Business with excellent Panel connexion; turnover over £2,100 per annum; gross profit approaches 40 per cent.; comfortable living accommodation; inclusive purchase price asked £1,300, or near offer.

13.—**ANERLEY (NEAR) (RETIREMENT VACANCY).**—Turnover £1,100; gross profit £375; excellent house; price £600 all-at; scope for increase; middle-class business.

14.—**BARNES.**—Cash Retail Business in main-road position; turnover this year will be about £1,100; net profit £250; modern double-fronted lock-up shop; rent £85 per annum; sublet 37s. per week; long lease; terms £100 plus valuation of stock and fittings, about £600 in all.

15.—**LEE (LONDON, S.E.).**—General Retail Business with Kodak and Rexall agencies; returns £1,450; net profit over £300; conducted under management; stock and fixtures estimated to be worth £600; price £650 all-at.

16.—**CRICKLEWOOD.**—Main-road Good-class Cash Retail Business; valuable Agencies; turnover about £40 per week under management; rent of shop about £100 per annum; good, clean, saleable stock; attractive fixtures; vendor would probably accept about £100 for the goodwill plus the stock and fixtures at valuation, in all about £1,000; a small sum down will be accepted and the remainder over a period.

17.—**UPMINSTER.**—Chemist and Optician Business taking £40 per week; new lease; reasonable rent; stock £800; inclusive purchase price £1,250; vendor leaving Retail.

18.—**RUISLIP.**—Good Middle-class General Retail Business for sale owing to family reasons; turnover £2,000 per annum; scope to do £3,000; beautifully-fitted Pharmacy, well stocked; inclusive purchase price required £1,400; valuation terms entertained.

19.—**HASTINGS.**—General Retail Business; increasing turnover; net profit exceeds £400 per annum; nice living accommodation; heavy stock; minimum purchase price £1,000; increasing turnover.

20.—**BRIGHTON (NEAR).**—High-class Dispensing Business run by lady; increasing turnover, £2,220 for year just completed; excellent modern living accommodation; rent only £105 per annum; long lease; stock and fixtures worth £750 to £800; reasonable purchase price.

21.—**LIVERPOOL.**—Family Retail Business; takings nearly £2,000 for the last completed financial year; gross profit £810; stock and fixtures worth £950; good living accommodation; inclusive purchase price asked £1,300; low rental.

22.—**CLEETHORPES.**—Good-class Retail Business; net profit about £5 per week and living accommodation; rent only £60 per annum; inclusive purchase price £400.

23.—**SOUTH WALES.**—Old-established Business for sale by widow; in present hands 19 years; takings last year £1,300 under management; living accommodation; rent £40; inclusive purchase price required £350.

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25.—**LONDON.**—Specialised Wholesale Business for disposal; old established; net profit £600 per annum; scope; price to include freehold property approximately £2,200; retirement vacancy; full particulars upon application with banker's reference.

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(C1) ESSEX.—Well-established cash business of the lower, middle-class type; turnover nearly £4,000 per annum, and the net profit to an owner-manager should be not less than £700; reasonable rental, which includes living accommodation, or the freehold could be purchased at a moderate figure, if desired; the premises are at present held on lease with about 17 years to run; price £2,300, including stock and fixtures, estimated at £1,600; near offer considered; trial will be welcomed.

(C2) BRIGHTON.—Prominently situated good-class business with excellent living accommodation; turnover for 1937-38, £2,218; gross profit, £908; genuine scope for increase, as owing to other interests the proprietor has not been able to devote to the business the whole of his time and attention; price all-at £1,500.

(C3) CLAPHAM (NEAR).—Attractive well-fitted Pharmacy, with genuine scope for increase; turnover upwards of £1,500 per annum; gross profit about 35 per cent.; living accommodation, which has recently been redecorated; price £850, including stock (£450-£500), and fixtures (about £200); reasonable offer considered.

(C4) BRISTOL SUBURB.—Modern Pharmacy with up-to-date flat, garden, garage, etc., at present under management, the owner having other full-time interests; present turnover small, but capable of substantial increase with personal attention; property can be purchased or taken on lease at reasonable rental; further details upon application.

(C5) WEST END.—Good-class business taking between £40 and £45 weekly; considerable scope for increase; situated in best part of West End; genuine reason for selling, and for a quick transaction, little more than value of stock and fixtures will be accepted; stock estimated at £600 and fixtures at £300.

(C6) LEICESTER.—Working-class business with good toilet and photographic trade; turnover approximately £1,400 per annum; net profit for last financial year £340; living accommodation; price all-at £875 (minimum), including stock and fixtures, estimated at not less than £600.

(C7) SUSSEX.—Unopposed village business with good living accommodation; turnover under management approximately £1,000 per annum; scope for considerable increase, with personal attention, etc.; Elizabeth Arden, etc., agencies; several doctors reside near by, and the premises are well situated; price all-at £550.

(C8) KENT (NEAR TO LONDON).—Opportunity to acquire progressive business with no near opposition, at an all-in figure of approximately £450; present returns under management approximately £27 weekly; can be increased substantially with personal attention; living accommodation with garden and garage.

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5.—BEXLEY HEATH.—Light Cash Retail, showing steady increases; returns £1,400; gross profit £474; modern premises; price for quick sale £650.

6.—LONDON, N.—Old-established business, returning £1,250 under management; plenty of scope; profits nearly 40 per cent.; good position; low rent, long lease; price about £450 for quick sale; personally recommended.

7.—LONDON, E.—Well-established Business with good Panel; turnover £1,500, increasing, audited books; busy main-road position; price £1,000 or near offer.

8.—LONDON, S.W. (Few miles out).—Good middle-class Business; returns over £1,000; net profit £275-£300; nice house and shop; genuine reasons for selling; price £575.

9.—NORTH LONDON.—Genuine Cash Drug Store; under female management; turnover about £800; fine chance for Chemist; good stock; price £275 or offer.

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garage; turnover for last financial year, £1,060; property can be purchased or taken on lease at a reasonable rental; populous area to draw upon; opposition consists of one other chemist only; price £600, including stock estimated at £400.

(C10) BEDFORDSHIRE TOWN.—Branch business (lock-up); turnover for 1937-38, £1,100; net profit £250; no near opposition; populous area to draw upon; reasonable purchase price. Trial if desired.

(C11) SOUTH STAFFS.—Village Pharmacy; turnover shows steady increase since 1931; 1937, £1,075 (about £200 N.H.I.); very profitable business; lock-up shop; rent and rates £30; stock and fixtures at valuation (about £280); goodwill £200; ill-health compels urgent sale.

(C12) Highbury (NEAR).—Prominently situated Pharmacy, established over 80 years and in present hands for past 33 years; turnover for last financial year, £1,307; net profit as per income tax return, £328; abundant scope for increase, as present owner, who is retiring, has not expanded on up-to-date lines; price all-at £750.

(C13) SUFFOLK COAST.—Good-class business occupying main position; excellent living accommodation, including good garden, etc.; turnover upwards of £1,300 per annum, and steadily increasing; very reasonable overheads; price £175 for goodwill, plus stock and fixtures at valuation.

(C14) WESTCLIFF-ON-SEA.—Middle-class business (lock-up), occupying main-road position; turnover for 1937-38 approximately £1,500; rent £110; at present under management, and scope exists for a fair amount of increase over the present returns; stock and fixtures estimated at £600-£650, and the first reasonable offer will be accepted, as the owner is moving to another district and wishes to sell as quickly as possible.

(C15) NORTH WALES.—Old-established middle-class business with library; turnover approximately £1,400 per annum; net profit £350; extensive living accommodation; leasehold property can be purchased if desired; price for quick sale £900, including stock and fixtures estimated at £750.

(C16) BARNET.—Suburban business of the family type; the turnover during the past three years has been very consistent, and has averaged at the rate of £1,300-£1,350 per annum; net profit about £260; rent £70 including good house; stock and fixtures estimated at £510 and £180 is asked for goodwill; reasonable offers, however, will be considered.

(C17) PADDINGTON (NEAR).—Exceptionally good profit-earning business situated in working-class district; established nearly 50 years; large N.H.I.; net profit for 1937-38, £389; no near opposition; price all-at £640, plus leasehold property, which the owner is also desirous of selling.

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REQUIRED immediately, good business in Provincial Town, preferably South or South-West; turnover approximately £3,000 per annum; capital available for immediate negotiation. 538/371, Office of this Paper.

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CHANNEL ISLANDS.—Unqualified Assistant; used to high-class
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sidered. Apply, with details of experience, two references and
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COMPETENT Unqualified Assistant required with good general
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Regis.

DOCTOR requires Lady Dispenser for Wilts country practice
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shop experience preferred; used to country; not contemplating
marriage. State in writing, age, height, education, experience,
and when free (photo and references required, returnable);
salary £65, insurances paid, to live in. 124/19, Office of this
Paper.

LADY Assistant, good appearance and address, for Toilet and
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culars, age, height, experience, references, salary and photo if
possible to R. W. Oldland, 131 Broadway, Thorpe Bay.

MANAGER, Qualified, required for London Suburb; living
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"A," 338/383, Office of this Paper.

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age, salary required, and when free, to Ipswich Industrial Co-
operative Society, Ltd., 38 Carr Street, Ipswich. Endorse envelope
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SMART experienced female Assistant required immediately for
good middle-class business in Grays, Essex; salary £2 per
week. Write fully in first instance to 338/379, Office of this Paper.

UNQUALIFIED Assistant (Junior) required for brisk Cash busi-
ness in S.W. London; must have served regular apprentice-
ship and have good reference; state age, height, salary required
and when at liberty. 124/9, Office of this Paper.

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Apply, giving full particulars as to salary, etc., photograph
if possible, J. H. Meynell, 24 High Street, Bexley, Kent.

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to heavy N.H.I. and Counter work; commence shortly; state
salary required and experience, with names of references; replies
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Office of this Paper.

UNQUALIFIED Junior Assistant wanted immediately for good-
class business. Please state age, height and salary required,
enclosing photo, to Kinghorn, Chemist, Wells, Norfolk.

WANTED.—Young Qualified Assistant, indoor, good home. State
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Production of Pharmaceutical Specialities, especially medical
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preference will be given to those who also have sales experience.
Applicants should give full references and particulars of previous
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MANUFACTURERS of ethical preparations, situated 15 miles
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ence in Advertising, Writing and Lay-out work. Write, giving
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MESSRS. AVA LIMITED, invite applications from Representa-
tives in the Toilet and Perfumery Trade, with sound con-
nections in the Eastern Counties area, upon salary, expenses and
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perience, age, salary required, etc., to Ava Limited, 9 Park Hill,
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REPRESENTATIVE (London area).—Established Manufacturers
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and Stores. Inquiries invited only from first-class men with sound
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this Paper.

REPRESENTATIVE wanted for Northumberland, Durham,
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a nationally advertised line; possession of a car essential; good
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cery Lane, W.C.2.

REPRESENTATIVES required by Manufacturing Chemists for
England and Scotland on commission basis; no objections to
carrying non-competitive line; car owners preferred but not essen-
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experience, and connexion (in strictest confidence), 339/384, Office
of this Paper.

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ments of Veterinary profession; connexion essential. Apply,
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A SSISTANT, Unqualified, 8 years' experience, including Dispensing, Window-dressing, Manufacturing, Photography and Toilets, desires position, permanent. 339/386, Office of this Paper.

E XPERIENCED Assistant desires engagement; married; with or without living accommodation; all branches; any district. Andrews, 509 Christchurch Road, Boscombe, Bournemouth.

E X-PROPRIETOR Pharmacist requires employment, any capacity, London; part time or otherwise; efficient; salary not important. 124/30, Office of this Paper.

L ADY Assistant, Hall Dispensers' Certificate, requires position with Doctor or Chemist; experienced in Surgery and shop; good testimonials. 122/5, Office of this Paper.

L ADY (Hall) desires evening or part-time Dispensing; Leeds, Bradford district; no Counter work. Roberts, Poplar House, Staningley, Leeds.

M R. S. G. MOTE, M.P.S., F.B.O.A., can thoroughly recommend his recent young Qualified Lady Assistant in any department of Pharmacy, Miss Haycock, "Three Trees," Ashted, Surrey.

M.P.S. (25), Public School man, Square-trained; good experience Dispensing, Window-dressing and Counter work, including Photographic apparatus; London or Kent. R. L. Mead, 80 Tankerton Road, Whitstable, Kent.

P HARMACIST (28), Qualified, male, requires post in good-class Dispensing business; excellent all-round experience; free now if required. 124/24, Office of this Paper.

Q UALIFIED, married, wide experience, excellent references, desires change, London or provincial. 122/2, Office of this Paper.

Q UALIFIED requires position as Manager or Assistant; reliable Dispenser; thoroughly experienced; excellent references; free now. Bray, Chemist, Long Sutton, Lincs.

S OUTH LONDON or near—Pharmacist (22), tall, good appearance; keen Pharmaceutical interest; all-round experience; now free. Williams, 35 Markville Gardens, Caterham Valley, Surrey.

U NQUALIFIED Assistant (29); 10 years' all-round experience; free now; anywhere. Rowe, 21 St. Michael's Street, Oxford.

U NQUALIFIED, experienced West End and Continental, desires permanent position, London; free one month after engagement; accurate Dispenser, quick Counter; capable Display; fluent French. 339/387, Office of this Paper.

U NQUALIFIED Male Assistant; disengaged now; first-class Dispensing and Photographic experience; excellent references. "Statim," 83 Ordnance Street, Chatham, Kent.

Y OU REQUIRE a Manager this New Year? I desire change.—Pharmacist (30 years; 6 ft.), married; 12 years' excellent all-round experience, 5 years managing. Write for full details or interview. 124/13, Office of this Paper.

LOCUMS SEEKING ENGAGEMENTS

C HEMIST, Locum or permanency; experienced; recommended; disengaged; London or Provinces; anywhere. Chemist, 24 Hillside Crescent, South Harrow, Middlesex.

L OCUM or Emergency; Qualified; any period or distance; experienced. J. M. Gregory, 128 Adelaide Road, Hampstead, N.W. Phone Primrose 6830.

Q UALIFIED Locum or temporary position; experienced; free now. Mills, 341 Lower Broughton Road, Salford, 7.

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